

# KIPDA Area Occupational Outlook to 2010



*Bullitt  
Henry  
Jefferson  
Oldham  
Shelby  
Spencer*



**Education Cabinet**  
Department for Employment Services  
Frankfort, Kentucky 40621

# KIPDA AREA OCCUPATIONAL OUTLOOK TO 2010

ERNIE FLETCHER, GOVERNOR

VIRGINIA G. FOX, SECRETARY  
EDUCATION CABINET

James F. Thompson, Commissioner  
Department for Employment Services

Ken M. Kilkelly, Director  
DeDe T. Conner, Assistant Director  
Administration and Financial Management Division

**A LABOR MARKET INFORMATION PUBLICATION BY:**

## **RESEARCH AND STATISTICS BRANCH**

Carlos Cracraft, Manager

Lelia Todd, Supervisor  
Occupational Employment Statistics Unit

Patricia Dobbins,  
Labor Market Analyst



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## PREFACE

The Labor Market Information in this publication is based on a large array of labor market statistics collected and developed by the staff of the Research and Statistics (R&S) Branch in the Kentucky Department for Employment Services. The Labor Market Information (LMI) Section within R&S developed the projections and this publication.

The Kentucky Occupational Employment Statistics (OES) survey of Kentucky employers provided the occupational employment data used in the study. This is a statewide survey of approximately 20,000 employers, over a three-year period, representing the various industries in Kentucky. The employment data used to project industries to the year 2010 were based on the Current Employment Statistic (CES) and the Employment and Earnings (ES-202) programs. The projected total growth in each Area Development District (ADD) was based on employment data from 1971 through 2000 developed from the Local Area Unemployment Statistics (LAUS) program. Data from all of the above programs were used to develop the occupational outlook to 2010 publications for each Area Development Districts listed below:

ADD 1-Purchase Area	ADD 8&9-Buffalo Trace and Gateway Areas
ADD 2-Pennyriple Area	ADD 10-FIVCO Area
ADD 3-Green River Area	ADD 11-Big Sandy Area
ADD 4-Barren River Area	ADD 12-Kentucky River Area
ADD 5-Lincoln Trail Area	ADD 13-Cumberland Valley Area
ADD 6-Louisville (KIPDA) Area	ADD 14-Lake Cumberland Area
ADD 7-Northern Kentucky Area	ADD 15-Bluegrass Area

The projections and this publication are funded by the U.S. Department of Labor (USDOL), Employment and Training Administration. The national industry and occupational projections developed by the U. S. Department of Labor's Bureau of Labor Statistics were used in the process to project Kentucky's industries and occupations. The Bureau of Labor Statistics and the U.S. Department of Commerce, Bureau of Economic Analysis provided additional statistics necessary in the projection process. The Utah Department of Economic Security developed the personal computer-based model used for the occupational projections. Special thanks go to the Kentucky employers who completed the questionnaires that provided the employment information necessary for this effort.

Questions, comments or requests for copies may be addressed to:

Kentucky Department for Employment Services  
Education Cabinet  
Research and Statistics Branch  
Labor Market Information  
CHR Building 2WG  
275 East Main Street  
Frankfort, Kentucky 40621

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## INTRODUCTION

Which jobs will be in demand in the KIPDA Area from now until the year 2010? Which occupations will provide the most job openings each year through 2010? Which occupations are likely to grow the fastest and which are likely to decline from 2000 to 2010? The *KIPDA Area Occupational Outlook to 2010* offers some insight into these often asked questions. Students, job seekers, counselors and others should find this report helpful.

This report contains highlights and a user's guide to occupational statistics that provide answers to frequently asked questions regarding the statistics. Also included are tables of the top 45 KIPDA Area occupations with the most annual job openings and the 44 fastest-growing KIPDA Area occupations. The KIPDA Area Occupational Employment Outlook and Job Openings tables beginning on page 9 provides occupational employment projections for a variety of occupations. This table also presents, for each of these occupations, the number and percentage of expected change in employment and the average number of annual job openings for the period of 2000 to 2010.

While this study provides projections of occupational trends and job openings in the KIPDA Area, it should be stressed that the estimates are subject to the limitations that are a part of any effort to determine future conditions. It is impossible to predict what the KIPDA Area will look like in 2010. The projections of long-term trends into the future, however, should provide valuable insight into the likely magnitude of occupational growth or decline in the area. The projections have been carefully prepared using accepted methods within a framework of national, state and area assumptions. They will be modified in future publications if long-term changes occur in the area's economic outlook or as more current information becomes available.

The estimates in this report reflect only the demand for labor from 2000 through 2010. The supply, or the number of educated or trained workers available to fill future job openings, is beyond the scope of this report.

With a projected tighter labor market resulting from Kentucky's labor force growing more slowly than employment, along with the structural and technological changes that are taking place in all industries, the development and utilization of our human resources have become a top priority for all those concerned with employment training. Education and training programs that can meet the needs of employers today and in the future will take on even greater importance. To meet this challenge, it is crucial that education and training planners, business, labor, government and job seekers have the necessary occupational information to assist them in making informed, intelligent decisions in the development of these education and training programs as well as individual career choice. This publication was designed to assist users in these tasks.

**NOTE:** These 2000-2010 projections use the new Standard Occupational Classification (SOC) system, while prior versions of projections used the Occupational Employment Statistics (OES) codes for classifying occupations. Because of this change, the titles and content of major occupational groups and many detailed occupations are substantially different. Several major groups have been renamed, combined, or reorganized. Some individual occupations also have been renamed or classified within different major groups. Some occupations are no longer listed, while newer occupations are listed for the first time with the SOC system. Because of these changes, the 2000-2010 projections are not comparable with earlier sets of projections. Information of the SOC system can be obtained at the U.S. Bureau of Labor Statistics SOC Home Page at <http://www.bls.gov/soc/home.htm>.

## HIGHLIGHTS

- ✓ KIPDA Area employment is expected to grow from 532,294 to 613,545 between 2000 and 2010, a gain of 15.3 percent.
- ✓ Between 2000 and 2010, the total annual job openings are expected to be about 20,958.
- ✓ Growth in employment will make available about 8,125 job openings annually.
- ✓ Approximately 12,833 job openings will result from separations from the labor force due to retirement or those who transfer to other jobs.
- ✓ Approximately 39 percent of job openings will result from growth, and the remaining 61 percent will result from separations from the labor force.
- ✓ The greatest number of job openings will be in the Office and Administrative Support Occupations (2,877), followed by the Food Preparation and Serving Related Occupations (2,383), and the Sales and Related Occupations (2,057).
- ✓ Particular Occupations with the largest percentage of change from 2000 to 2010 in the KIPDA Area are Home Appliance Repairs (168.1%), Computer Software Engineers, Applications (115.1%), Computer Software Engineers, Systems Software (112.3%) and Computer Support Specialists (92.5%).
- ✓ The largest growth rates between 2000 and 2010 are expected to be in the Computer and Mathematical Occupations (75.6%), the Healthcare Support Occupations (28.6%), and the Healthcare Practitioners and Technical Occupations (25.4%).
- ✓ The top two KIPDA Area occupations with the most annual job openings are Combined Food Prep. & Serving Workers (966) and Laborers, Freight, Stock & Material Movers, Hand (635).

## A USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS

***When looking at an occupation, what key outlook data should you review?***

- 1) Total average annual job openings and
- 2) Employment change expressed as a percentage

The total number of job openings estimates the likely annual demand for workers in each occupation. The percentage of employment change shows how much each occupation is likely to grow or decline.

***What creates job openings?***

- 1) Employment growth (new jobs)
- 2) Employment separations (job vacancies created by persons separating from an occupation)

***What causes employment change?***

*Industrial growth or decline* has the greatest influence on employment change. Industrial growth occurs when the demand for goods and services rises and, in turn, the demand for workers to produce those goods and services rises.

*Technological change* can raise the demand for some skills while eliminating the need for others. As this shift is going on, demand in the industry as a whole may be rising or falling.

*New ways of doing business* such as self-service, out-sourcing, or 24-hour operations can affect employment change.

***Then what about employment separations?***

Employment separations are still important when evaluating an occupation's potential outlook. Job openings are created by persons separating from an occupation because of retirements, promotions into different occupations, career changes, or deaths. In many instances, the number of employment separations exceeds new jobs.

***Do workers tend to leave one occupation more than another?***

Every occupation has a different rate of employment separations. Those occupations that require much education and training and/or have a high percentage of full-time workers tend to have low separation rates. But occupations that require little education and/or training tend to have higher separation rates.

***What factors affect the number of job openings for an occupation?***

- 1) The overall size of the occupation: How many workers are employed already?
- 2) The occupation's separation rate: How many job vacancies are created from workers separating from the occupation?
- 3) The occupation's rate of change: How fast is it growing or declining?

***Which factor is more important?***

Size of employment and separation rate are more important than rate of change in affecting the number of job openings.

***What is the best way to compare one occupation with another?***

- 1) Look at the total average annual job openings, not just openings resulting from growth. A large number of openings means it should be relatively easy to find a job in that occupation.
- 2) Look at the employment change expressed as a percentage. A high percentage increase in employment means that there may be excellent chances for advancement and for earnings increases because demand is likely to remain strong for some time.

**Top 45**  
**KIPDA Area Occupations With The Most Annual Job Openings**

<b>Occupation Code</b>	<b>Occupational Title</b>	<b>Job Openings</b>		
		<b>Average Annual 2000-2010</b>		
		<b>Growth</b>	<b>Separations</b>	<b>Total</b>
<b><u>Management Occupations</u></b>				
11-1021	General and Operations Managers	120	171	<b>291</b>
11-3031	Financial Managers	66	42	<b>108</b>
<b><u>Computer and Mathematical Occupations</u></b>				
15-1031	Computer Software Engineers, Applications	226	13	<b>239</b>
15-1041	Computer Support Specialists	200	9	<b>209</b>
15-1032	Computer Software Eng., Systems Software	87	5	<b>92</b>
<b><u>Community &amp; Social Services Occupations</u></b>				
21-2011	Clergy	47	74	<b>121</b>
<b><u>Healthcare Practitioners and Technical Occupations</u></b>				
29-1111	Registered Nurses	236	187	<b>423</b>
29-2061	Licensed Practical & Vocational Nurses	48	66	<b>114</b>
<b><u>Healthcare Support Occupations</u></b>				
31-1012	Nursing Aides, Orderlies, and Attendants	90	63	<b>153</b>
31-9092	Medical Assistants	82	35	<b>117</b>
<b><u>Protective Service Occupations</u></b>				
33-9032	Security Guards	76	121	<b>197</b>
<b><u>Food Preparation and Serving Workers</u></b>				
35-3021	Combined Food Prep. & Serving Workers	343	623	<b>966</b>
35-3031	Waiters and Waitresses	92	308	<b>400</b>
35-2021	Food Preparation Workers	39	127	<b>166</b>
35-3022	Counter Attend, Cafeteria, Food Concession	22	127	<b>149</b>
35-2011	Cooks, Fast Food	0	138	<b>138</b>
35-2014	Cooks, Restaurant	54	70	<b>124</b>
35-1012	Supervisors of Food Preparation & Serving	29	72	<b>101</b>
<b><u>Building and Grounds, Cleaning and Maintenance Occupations</u></b>				
37-2011	Janitors, Cleaners, Ex. Maids & Housekeeping	107	154	<b>261</b>
37-2012	Maids and Housekeeping Cleaners	23	131	<b>154</b>
37-3011	Landscaping and Groundskeeping Workers	78	66	<b>144</b>



**Top 45**  
**KIPDA Area Occupations With The Most Annual Job Openings (cont'd)**

<b>Occupation Code</b>	<b>Occupational Title</b>	<b>Job Openings</b>		
		<b>Average Annual 2000-2010</b>		
		<b>Growth</b>	<b>Separations</b>	<b>Total</b>
<b><u>Personal Care and Service Occupations</u></b>				
39-9011	Child Care Workers	141	387	<b>528</b>
<b><u>Sales and Related Occupations</u></b>				
41-2031	Retail Salespersons	91	530	<b>621</b>
41-2011	Cashiers	0	523	<b>523</b>
41-4012	Sales Reps, Wholesale & Manuf., Ex. Tech	44	191	<b>235</b>
41-2021	Counter and Rental Clerks	53	67	<b>120</b>
<b><u>Office and Administrative Support Occupations</u></b>				
43-4051	Customer Service Representatives	298	69	<b>367</b>
43-9061	Office Clerks, General	130	189	<b>319</b>
43-5081	Stock Clerks and Order Fillers	19	277	<b>296</b>
43-1011	Supervisors of Office and Administrative	68	117	<b>185</b>
43-4171	Receptionists and Information Clerks	97	87	<b>184</b>
43-3031	Bookkeeping, Accounting, and Auditing Clerks	38	128	<b>166</b>
43-6011	Executive Secretaries & Administrative Assist	54	96	<b>150</b>
43-5071	Shipping, Receiving, and Traffic Clerks	69	72	<b>141</b>
43-6014	Secretaries, Except Legal, Medical & Executive	6	131	<b>137</b>
43-3011	Bill and Account Collectors	47	65	<b>112</b>
43-3021	Billing, Posting Clerks and Machine Operators	37	75	<b>112</b>
43-3071	Tellers	0	90	<b>90</b>
<b><u>Construction and Extraction Occupations</u></b>				
47-2111	Electricians	84	63	<b>147</b>
47-1011	Supervisors of Construction Trades & Extraction	38	53	<b>91</b>
47-2152	Plumbers, Pipefitters, and Steamfitters	47	39	<b>86</b>
<b><u>Installation, Maintenance and Repair Occupations</u></b>				
49-3023	Automotive Service Technicians and Mechanics	36	56	<b>92</b>
<b><u>Transportation and Material Moving Occupations</u></b>				
53-7062	Laborers, Freight, Stock & Material Mover, Hand	221	414	<b>635</b>
53-3032	Truck Drivers, Heavy and Tractor-Trailer	65	79	<b>144</b>
53-7064	Packers and Packagers, Hand	42	96	<b>138</b>

**Top 45**  
**Fast-Growing KIPDA Area Occupations**

Occupation Code	Occupational Title	Fast Growing Occupations				Total
		Employment		Change		Job Openings
		Actual 2000	Projected 2010	2000-2010 Number	Percent	Average Annual 2000-2010
<b><u>Management Occupations</u></b>						
11-3021	Computer and Information Systems Managers	851	1,268	417	<b>49.0</b>	56
11-9141	Property, Real Estate, Community Assn Manag.	580	831	251	<b>43.3</b>	34
<b><u>Business and Financial Operations Occupations</u></b>						
13-2021	Appraisers and Assessors of Real Estate	178	279	101	<b>56.7</b>	15
<b><u>Computer and Mathematical Occupations</u></b>						
15-1031	Computer Software Engineers, Applications	1,965	4,227	2,262	<b>115.1</b>	239
15-1032	Computer Software Eng., Systems Software	770	1,635	865	<b>112.3</b>	92
15-1041	Computer Support Specialists	2,160	4,157	1,997	<b>92.5</b>	209
15-1011	Computer and Information Scientists, Research	34	63	29	<b>85.3</b>	3
15-1071	Network and Computer Systems Administrators	850	1,524	674	<b>79.3</b>	71
15-1061	Database Administrators	426	758	332	<b>77.9</b>	35
15-1081	Network Systems & Data Comm. Analysts	510	901	391	<b>76.7</b>	41
15-1051	Computer Systems Analysts	1,475	2,124	649	<b>44.0</b>	78
<b><u>Architecture &amp; Engineering Occupations</u></b>						
17-3012	Electrical and Electronics Drafters	195	313	118	<b>60.5</b>	18
17-2061	Computer Hardware Engineers	40	63	23	<b>57.5</b>	3
17-2071	Electrical Engineers	303	467	164	<b>54.1</b>	22
17-1012	Landscape Architects	61	93	32	<b>52.5</b>	3
17-2072	Electronics Engineers, Except Computer	326	484	158	<b>48.5</b>	22
17-3011	Architectural and Civil Drafters	427	621	194	<b>45.4</b>	32
17-3031	Surveying and Mapping Technicians	205	298	93	<b>45.4</b>	16
17-1011	Architects, Except Landscape and Naval	195	274	79	<b>40.5</b>	9
<b><u>Life, Physical, and Social Science Occupations</u></b>						
19-2021	Atmospheric and Space Scientists	37	62	25	<b>67.6</b>	4
<b><u>Community &amp; Social Services Occupations</u></b>						
21-1093	Social and Human Service Assistants	550	806	256	<b>46.5</b>	34
21-1022	Medical and Public Health Social Workers	335	484	149	<b>44.5</b>	19
<b><u>Arts, Design, Entertainment, Sports &amp; Media Occupations</u></b>						
27-3091	Interpreters and Translators	65	98	33	<b>50.8</b>	4
27-3042	Technical Writers	99	147	48	<b>48.5</b>	8
27-1014	Multi-Media Artists and Animators	77	113	36	<b>46.8</b>	6
27-3031	Public Relations Specialists	819	1,196	377	<b>46.0</b>	52
27-1011	Art Directors	120	170	50	<b>41.7</b>	8

**Top 45  
Fast-Growing KIPDA Area Occupations (cont'd)**

Occupation Code	Occupational Title	Fast Growing Occupations				Total
		Employment		Change		Job Openings
		Actual 2000	Projected 2010	2000-2010 Number	Percent	Average Annual 2000-2010
<u>Healthcare Practitioners and Technical Occupations</u>						
29-1071	Physician Assistants	152	238	86	56.6	12
29-2071	Medical Records & Health Info Technicians	560	838	278	49.6	41
29-2055	Surgical Technologists	373	558	185	49.6	29
29-1123	Physical Therapists	515	723	208	40.4	34
<u>Healthcare Support Occupations</u>						
31-9092	Medical Assistants	1,322	2,138	816	61.7	117
31-2022	Physical Therapist Aides	149	223	74	49.7	11
31-2021	Physical Therapist Assistants	285	424	139	48.8	22
31-1011	Home Health Aides	980	1,381	401	40.9	53
31-2011	Occupational Therapist Assistants	49	69	20	40.8	4
<u>Protective Service Occupations</u>						
33-3051	Police and Sheriff's Patrol Officers	1,213	1,713	500	41.2	76
<u>Personal Care and Service Occupations</u>						
39-9021	Personal and Home Care Aides	692	976	284	41.0	39
<u>Office and Administrative Support Occupations</u>						
43-9031	Desktop Publishers	117	197	80	68.4	10
<u>Construction and Extraction Occupations</u>						
47-4011	Construction and Building Inspectors	197	294	97	49.2	15
<u>Installation, Maintenance and Repair Occupations</u>						
49-9031	Home Appliance Repairers	160	429	269	168.1	30
49-2097	Electronic Home Entertain Equip. Install, Repair	164	256	92	56.1	12
49-9021	Heating, Air Conditioning & Refrigeration Mech.	628	929	301	47.9	37
49-3053	Outdoor Power Equip, Other Small Engine Mech	150	220	70	46.7	11
49-2092	Electric Motor, Power Tool & Related Repairers	270	382	112	41.5	17

## Explanation of Data Elements on the Occupational Outlook Table

### *Occupational Employment Outlook and Job Openings*

Occupational		Employment 2000      2010		Job Growth 2000      2010		Average Annual Job Openings			Average Wage	Education/ Training Required *
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2001	
<p>• <b>Occupational Codes and Titles</b> used in this report are based on the <i>Standard Occupational Coding (SOC)</i> Structure.</p> <p><b>NOTE:</b></p> <p><i>Alphabetical listing beginning on page 40 should help locate a specific occupation within the tables.</i></p>		<p>• <b>Estimated</b> 2000 employment is based on the <i>Occupational Employment Statistics (OES)</i> Survey of employers.</p> <p>• <b>Projected</b> 2010 levels of occupational employment are based on projections of industry employment and projections of occupational change factors between 2000 and 2010.</p> <p><b>NOTE:</b></p> <p><i>The Occupational employment estimates for 2000 to 2010 include all classes of workers such as public and private, wage and salaried workers; agricultural workers; private household workers; and self-employed.</i></p>		<p>• <b>Number</b> - The total number of jobs in an occupation gained or lost over the 2000 to 2010 period.</p> <p>• <b>Percent</b> - Percent change in employment in an occupation over the ten year period.</p> <p><b>NOTE:</b></p> <p><i>In Kentucky, 16.0 percent job growth between 2000 and 2010 is the average growth for all occupations.</i></p> <p><i>An occupation is expected to experience:</i></p> <ol style="list-style-type: none"> <li>1) <i>average growth if percent change is between 12 to 18%;</i></li> <li>2) <i>very fast growth if &gt; 30%;</i></li> <li>3) <i>fast growth if &gt;18% &lt; 30%;</i></li> <li>4) <i>slow growth if &gt;5% &lt;12%;</i></li> <li>5) <i>very slow growth if &gt;0% &lt;5%;</i></li> <li>6) <i>negative or declining growth &lt;0%.</i></li> </ol>		<p>• <b>Growth</b> openings provide estimates of the average number of job openings expected to occur each year between 2000 and 2010 that result from employment growth.</p> <p>• <b>Separation</b> openings provide estimates of the average number of job openings expected to occur each year in an occupation, resulting from workers separating or leaving the occupation for such reasons as retirement, promotion, or simply transferring among occupations. Such separations would require replacement workers.</p> <p>• <b>Total</b> openings provide estimates of the total number of job openings expected each year from employment growth or job separations.</p> <p><b>NOTE:</b></p> <p><i>If employment growth is negative, the total number of job openings will equal the number of separations. They are equal because the number of separations already takes into account the negative employment growth.</i></p>			<p>• <b>Average wage</b> in this report always refers to the 2001 mean average hourly wage.</p> <p><b>NOTE</b></p> <p><i>Average hourly wages for each of the teacher occupations in this report were calculated from the average annual wage by assuming the average working months per year was 9.5 and average hours worked per week was 40.</i></p>	<p>• <b>Education and Training Levels Usually Required</b> were developed by the Bureau of Labor Statistics and grouped into eleven levels (1-11).</p> <p><b>*NOTE</b></p> <p><i>The various levels are described in detail on page 39 of this report.</i></p>

# KIPDA Area

## Management Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2000	2010	2000-2010		Average Annual 2000-2010			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2001	Req'd~
00-0000	Total, All Occupations	532,294	613,545	81,251	15.3	8,125	12,833	20,958	n/a	n/a
11-0000	Management Occupations	39,527	44,938	5,411	13.7	541	665	1,206	n/a	n/a
11-1000	Top Executives	12,020	13,465	1,445	12.0	145	230	375	n/a	n/a
11-1011	Chief Executives	1,876	2,123	247	13.2	25	59	84	53.16	4
11-1021	General and Operations Managers	10,134	11,329	1,195	11.8	120	171	291	31.15	4
11-2000	Advertising, Marketing, Promotions, PR & Sales	2,892	3,689	797	27.6	80	42	122	n/a	n/a
11-2011	Advertising and Promotions Managers	314	389	75	23.9	8	5	13	23.76	4
11-2020	Marketing and Sales Managers	2,242	2,849	607	27.1	61	32	93	n/a	n/a
11-2021	Marketing Managers	782	933	151	19.3	15	11	26	33.35	4
11-2022	Sales Managers	1,460	1,916	456	31.2	46	21	67	33.38	4
11-2031	Public Relations Managers	336	451	115	34.2	12	5	17	26.77	4
11-3000	Operations Specialties Managers	7,429	8,874	1,445	19.5	145	129	274	n/a	n/a
11-3011	Administrative Services Managers	913	1,059	146	16.0	15	15	30	22.88	4
11-3021	Computer and Information Systems Managers	851	1,268	417	49.0	42	14	56	34.67	4
11-3031	Financial Managers	2,720	3,381	661	24.3	66	42	108	30.15	4
11-3040	Human Resources Managers	970	1,107	137	14.1	14	17	31	27.47	4
11-3051	Industrial Production Managers	793	777	-16	-2.0	0	13	13	30.82	5
11-3061	Purchasing Managers	602	539	-63	-10.5	0	19	19	25.98	4
11-3071	Transportation, Storage & Distribution Manager	580	743	163	28.1	16	9	25	26.43	8
11-9000	Other Management Occupations	17,186	18,910	1,724	10.0	172	264	436	n/a	n/a
11-9010	Agricultural Managers	2,926	2,479	-447	-15.3	0	17	17	n/a	n/a
11-9011	Farm, Ranch, and Other Agricultural Managers	52	59	7	13.5	1	1	2	18.81	4
11-9012	Farmers and Ranchers	2,874	2,420	-454	-15.8	0	16	16	n/a	9
11-9021	Construction Managers	904	1,157	253	28.0	25	15	40	32.33	5
11-9030	Education Administrators	780	860	80	10.3	8	20	28	n/a	4
11-9031	Education Admin, Preschool & Child Care	155	175	20	12.9	2	4	6	11.60	4
11-9041	Engineering Managers	587	601	14	2.4	1	10	11	38.39	4
11-9051	Food Service Managers	1,417	1,700	283	20.0	28	17	45	16.65	8
11-9061	Funeral Directors	163	199	36	22.1	4	3	7	20.08	6
11-9081	Lodging Managers	79	80	1	1.3	0	1	1	18.75	8
11-9111	Medical and Health Services Managers	819	1,102	283	34.6	28	14	42	30.29	4
11-9121	Natural Sciences Managers	114	102	-12	-10.5	0	2	2	38.20	4
11-9131	Postmasters and Mail Superintendents	43	39	-4	-9.3	0	1	1	23.11	8
11-9141	Property, Real Estate, Community Assn Manag.	580	831	251	43.3	25	9	34	17.42	5
11-9151	Social and Community Service Managers	530	613	83	15.7	8	10	18	21.07	5
11-9199	Managers, All Other	8,244	9,147	903	11.0	90	146	236	31.49	8

# KIPDA Area

## Business & Financial Operations Occs.

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
13-0000 Business and Financial Operations Occupations		15,050	17,462	2,412	16.0	241	286	527	n/a	n/a
13-1000	Business Operations Specialists	8,982	10,527	1,545	17.2	155	183	338	n/a	n/a
13-1020	Buyers and Purchasing Agents	1,289	1,335	46	3.6	5	30	35	n/a	n/a
13-1021	Purchasing Agents and Buyers, Farm Products	85	108	23	27.1	2	2	4	17.14	8
13-1022	Wholesale & Retail Buyers, Ex. Farm Products	397	381	-16	-4.0	0	12	12	21.24	5
13-1023	Purchasing Agents, Ex. Wholesale, Retail	807	846	39	4.8	4	16	20	22.38	5
13-1030	Claims Adj, Appraiser, Examiner & Investigator	898	1,044	146	16.3	15	10	25	n/a	n/a
13-1031	Claims Adjusters, Examiners, and Investigators	776	945	169	21.8	17	9	26	19.86	9
13-1041	Compliance Officer, Ex. Ag, Construction, Health	399	438	39	9.8	4	10	14	22.31	9
13-1051	Cost Estimators	740	841	101	13.6	10	16	26	23.05	5
13-1061	Emergency Management Specialists	*	*	*	*	*	*	*	19.17	8
13-1070	Human Res, Training & Labor Relations Spec	2,053	2,506	453	22.1	45	40	85	n/a	n/a
13-1071	Employment, Recruitment & Placement Spec	743	833	90	12.1	9	14	23	18.31	5
13-1072	Compensation, Benefits & Job Analysis Spec	202	243	41	20.3	4	4	8	20.65	5
13-1073	Training and Development Specialists	1,108	1,430	322	29.1	32	21	53	19.41	5
13-1111	Management Analysts	838	1,024	186	22.2	19	7	26	19.05	4
13-1121	Meeting and Convention Planners	89	108	19	21.3	2	2	4	16.78	5
13-1199	Business Operations Specialists, All Other	2,636	3,177	541	20.5	54	67	121	23.94	5
13-2000	Financial Specialists	6,068	6,935	867	14.3	87	103	190	n/a	n/a
13-2011	Accountants and Auditors	2,612	3,044	432	16.5	43	39	82	22.12	5
13-2021	Appraisers and Assessors of Real Estate	178	279	101	56.7	10	5	15	23.89	n/a
13-2031	Budget Analysts	238	262	24	10.1	2	5	7	21.87	5
13-2041	Credit Analysts	189	195	6	3.2	1	4	5	21.56	5
13-2050	Financial Analysts and Advisors	1,265	1,406	141	11.1	14	18	32	n/a	n/a
13-2051	Financial Analysts	439	559	120	27.3	12	6	18	24.90	5
13-2052	Personal Financial Advisors	291	382	91	31.3	9	3	12	39.36	5
13-2053	Insurance Underwriters	535	465	-70	-13.1	0	8	8	18.27	5
13-2061	Financial Examiners	75	72	-3	-4.0	0	2	2	26.22	5
13-2070	Loan Counselors and Officers	619	671	52	8.4	5	12	17	n/a	n/a
13-2071	Loan Counselors	43	51	8	18.6	1	1	2	14.69	5
13-2072	Loan Officers	576	620	44	7.6	4	12	16	25.07	5
13-2080	Tax Examiner, Collector, Preparer & Revenue	403	444	41	10.2	4	9	13	n/a	n/a
13-2081	Tax Examiners, Collectors & Revenue Agents	199	211	12	6.0	1	5	6	24.05	5
13-2082	Tax Preparers	204	233	29	14.2	3	4	7	12.16	10
13-2099	Financial Specialists, All Other	489	562	73	14.9	7	10	17	19.86	5

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
15-0000	Computer and Mathematical Occupations	10,302	18,089	7,787	75.6	779	89	868	n/a	n/a
15-1000	Computer Specialists	10,083	17,868	7,785	77.2	779	84	863	n/a	n/a
15-1011	Computer and Information Scientists, Research	34	63	29	85.3	3	0	3	34.95	n/a
15-1021	Computer Programmers	1,555	1,927	372	23.9	37	33	70	25.54	5
15-1030	Computer Software Engineers	2,735	5,862	3,127	114.3	313	18	331	n/a	n/a
15-1031	Computer Software Engineers, Applications	1,965	4,227	2,262	115.1	226	13	239	27.47	5
15-1032	Computer Software Eng., Systems Software	770	1,635	865	112.3	87	5	92	30.67	5
15-1041	Computer Support Specialists	2,160	4,157	1,997	92.5	200	9	209	17.24	6
15-1051	Computer Systems Analysts	1,475	2,124	649	44.0	65	13	78	26.32	5
15-1061	Database Administrators	426	758	332	77.9	33	2	35	25.81	5
15-1071	Network and Computer Systems Administrators	850	1,524	674	79.3	67	4	71	23.92	5
15-1081	Network Systems & Data Comm. Analysts	510	901	391	76.7	39	2	41	23.63	5
15-2000	Mathematical Scientists	219	221	2	0.9	0	5	5	n/a	n/a
15-2011	Actuaries	84	80	-4	-4.8	0	1	1	30.72	n/a
15-2021	Mathematicians	*	*	*	*	*	*	*	22.39	n/a
15-2031	Operations Research Analysts	111	119	8	7.2	1	4	5	23.50	n/a
15-2041	Statisticians	*	*	*	*	*	*	*	23.10	n/a

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Architecture & Engineering Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
17-0000	Architecture and Engineering Occupations	8,056	9,955	1,899	23.6	190	178	368	n/a	n/a
17-1000	Architects, Surveyors, and Cartographers	372	513	141	37.9	14	5	19	n/a	n/a
17-1010	Architects, Except Naval	256	367	111	43.4	11	2	13	n/a	n/a
17-1011	Architects, Except Landscape and Naval	195	274	79	40.5	8	1	9	27.16	5
17-1012	Landscape Architects	61	93	32	52.5	3	0	3	25.57	n/a
17-1020	Surveyors, Cartographers & Photogrammetrists	115	145	30	26.1	3	4	7	n/a	n/a
17-1021	Cartographers and Photogrammetrists	*	*	*	*	*	*	*	22.61	5
17-1022	Surveyors	95	120	25	26.3	3	3	6	21.89	5
17-2000	Engineers	4,505	5,357	852	18.9	85	97	182	n/a	n/a
17-2041	Chemical Engineers	141	129	-12	-8.5	0	2	2	33.48	5
17-2051	Civil Engineers	578	699	121	20.9	12	9	21	27.91	5
17-2061	Computer Hardware Engineers	40	63	23	57.5	2	1	3	28.08	n/a
17-2070	Electrical and Electronics Engineers	629	951	322	51.2	32	12	44	n/a	n/a
17-2071	Electrical Engineers	303	467	164	54.1	16	6	22	30.88	5
17-2072	Electronics Engineers, Except Computer	326	484	158	48.5	16	6	22	29.49	5
17-2081	Environmental Engineers	101	130	29	28.7	3	2	5	29.17	5
17-2110	Industrial Engineers, Inc. Health and Safety	834	762	-72	-8.6	0	14	14	n/a	n/a
17-2111	Health, Safety Engineers, Ex Mining Safety Eng	148	191	43	29.1	4	3	7	26.15	5
17-2141	Mechanical Engineers	897	1,026	129	14.4	13	26	39	30.10	5
17-2151	Mining, Geological Engineers, Inc Mining Safety	*	*	*	*	*	*	*	31.34	5
17-2199	Engineers, All Other	599	538	-61	-10.2	0	12	12	28.84	5
17-3000	Drafters, Engineering & Mapping Technicians	3,179	4,085	906	28.5	91	76	167	n/a	n/a
17-3010	Drafters	850	1,176	326	38.4	33	26	59	n/a	n/a
17-3011	Architectural and Civil Drafters	427	621	194	45.4	19	13	32	17.93	7
17-3012	Electrical and Electronics Drafters	195	313	118	60.5	12	6	18	17.20	7
17-3013	Mechanical Drafters	228	242	14	6.1	1	7	8	18.45	7
17-3020	Engineering Technicians, Except Drafters	1,716	2,171	455	26.5	46	35	81	n/a	n/a
17-3022	Civil Engineering Technicians	457	588	131	28.7	13	9	22	19.01	6
17-3023	Electrical & Electronic Engineering Technicians	648	812	164	25.3	16	13	29	21.54	6
17-3024	Electro-Mechanical Technicians	*	*	*	*	*	*	*	16.86	6
17-3025	Environmental Engineering Technicians	32	40	8	25.0	1	1	2	19.10	6
17-3026	Industrial Engineering Technicians	94	112	18	19.1	2	2	4	18.66	6
17-3027	Mechanical Engineering Technicians	249	283	34	13.7	3	5	8	17.34	6
17-3031	Surveying and Mapping Technicians	205	298	93	45.4	9	7	16	15.60	10
17-3099	Drafters, Engineering & Mapping Tech, All Other	408	440	32	7.8	3	9	12	20.35	6

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch



# KIPDA Area

## Life, Physical & Social Science Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Average Annual 2000-2010 Separations	Average Annual 2000-2010 Total		
<b>19-0000</b>	<b>Life, Physical, and Social Science Occupations</b>	<b>3,079</b>	<b>3,441</b>	<b>362</b>	<b>11.8</b>	<b>36</b>	<b>90</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>
<b>19-1000</b>	<b>Life Scientists</b>	<b>640</b>	<b>703</b>	<b>63</b>	<b>9.8</b>	<b>6</b>	<b>23</b>	<b>29</b>	<b>n/a</b>	<b>n/a</b>
19-1010	Agricultural and Food Scientists	49	56	7	14.3	1	2	3	25.36	5
19-1020	Biological Scientists	38	41	3	7.9	0	1	1	n/a	n/a
19-1022	Microbiologists	*	*	*	*	*	*	*	25.54	2
19-1023	Zoologists and Wildlife Biologists	*	*	*	*	*	*	*	24.70	2
19-1030	Conservation Scientists and Foresters	35	43	8	22.9	1	1	2	n/a	n/a
<b>19-2000</b>	<b>Physical Scientists</b>	<b>635</b>	<b>680</b>	<b>45</b>	<b>7.1</b>	<b>5</b>	<b>21</b>	<b>26</b>	<b>n/a</b>	<b>n/a</b>
19-2021	Atmospheric and Space Scientists	37	62	25	67.6	3	1	4	22.25	5
19-2030	Chemists and Materials Scientists	394	358	-36	-9.1	0	12	12	n/a	n/a
19-2031	Chemists	391	354	-37	-9.5	0	12	12	27.13	5
19-2040	Environmental Scientists and Geoscientists	160	215	55	34.4	6	5	11	n/a	n/a
19-2041	Environmental Scientists & Spec., Inc Health	130	174	44	33.8	4	4	8	20.82	5
19-2042	Geoscientists, Ex. Hydrologists, Geographers	*	*	*	*	*	*	*	26.70	5
19-2043	Hydrologists	*	*	*	*	*	*	*	30.50	5
<b>19-3000</b>	<b>Social Scientists and Related Workers</b>	<b>1,239</b>	<b>1,474</b>	<b>235</b>	<b>19.0</b>	<b>24</b>	<b>29</b>	<b>53</b>	<b>n/a</b>	<b>n/a</b>
19-3011	Economists	*	*	*	*	*	*	*	37.79	n/a
19-3020	Market and Survey Researchers	493	526	33	6.7	3	11	14	n/a	n/a
19-3021	Market Research Analysts	370	401	31	8.4	3	8	11	24.31	5
19-3022	Survey Researchers	123	125	2	1.6	0	3	3	10.55	n/a
19-3030	Psychologists	310	382	72	23.2	7	7	14	n/a	n/a
19-3031	Clinical, Counseling, and School Psychologists	265	317	52	19.6	5	6	11	23.41	3
19-3090	Misc Social Scientists and Related Workers	113	139	26	23.0	3	3	6	n/a	n/a
19-3091	Anthropologists and Archeologists	*	*	*	*	*	*	*	20.01	n/a
19-3092	Geographers	*	*	*	*	*	*	*	17.36	n/a
19-3093	Historians	*	*	*	*	*	*	*	22.08	n/a
<b>19-4000</b>	<b>Life, Physical, and Social Science Technicians</b>	<b>565</b>	<b>584</b>	<b>19</b>	<b>3.4</b>	<b>2</b>	<b>17</b>	<b>19</b>	<b>n/a</b>	<b>n/a</b>
19-4021	Biological Technicians	34	30	-4	-11.8	0	1	1	13.96	6
19-4031	Chemical Technicians	187	168	-19	-10.2	0	4	4	17.55	6
19-4090	Misc Life, Physical & Social Science Technician	313	355	42	13.4	4	11	15	n/a	n/a
19-4091	Environmental Science & Protection Technician	114	140	26	22.8	3	4	7	17.29	6
19-4099	Life, Physical & Social Science Tech, All Other	182	194	12	6.6	1	7	8	14.57	6

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Community & Social Service Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
21-0000	Community and Social Services Occupations	7,588	9,164	1,576	20.8	158	147	305	n/a	n/a
21-1000	Counselor, Social Worker & Other Community	4,223	5,207	984	23.3	98	62	160	n/a	n/a
21-1010	Counselors	1,184	1,387	203	17.1	20	24	44	n/a	n/a
21-1011	Substance Abuse & Behavior Disorder Couns.	83	110	27	32.5	3	2	5	16.60	3
21-1012	Educational, Vocational & School Counselors	470	579	109	23.2	11	10	21	24.49	3
21-1014	Mental Health Counselors	276	303	27	9.8	3	6	9	13.70	n/a
21-1015	Rehabilitation Counselors	347	386	39	11.2	4	7	11	12.14	3
21-1020	Social Workers	2,164	2,609	445	20.6	45	24	69	n/a	n/a
21-1022	Medical and Public Health Social Workers	335	484	149	44.5	15	4	19	16.55	5
21-1023	Mental Health & Substance Abuse Social Work	310	432	122	39.4	12	4	16	15.12	n/a
21-1090	Misc Community and Social Service Specialists	875	1,211	336	38.4	34	13	47	n/a	n/a
21-1091	Health Educators	118	159	41	34.7	4	2	6	15.64	3
21-1093	Social and Human Service Assistants	550	806	256	46.5	26	8	34	11.93	10
21-2000	Religious Workers	3,106	3,651	545	17.5	55	81	136	n/a	n/a
21-2011	Clergy	2,701	3,173	472	17.5	47	74	121	16.70	3
21-9000	Misc Counselors, Social, & Religious Workers	259	306	47	18.1	5	5	10	n/a	n/a
21-9099	Counselors, Social & Religious Work, All Other	259	306	47	18.1	5	5	10	14.72	5

~ Education/Training Required Codes- Page 38      n/a - Not Available      \* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Legal Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
23-0000	Legal Occupations	2,875	3,488	613	21.3	61	24	85	n/a	n/a
23-1000	Lawyers, Judges, and Related Workers	1,921	2,351	430	22.4	43	17	60	n/a	n/a
23-1011	Lawyers	1,731	2,148	417	24.1	42	12	54	33.35	1
23-1020	Judges, Magistrates & Other Judicial Workers	190	203	13	6.8	1	5	6	n/a	n/a
23-1021	Admin Law Judge, Adjudicator & Hearing Officer	110	110	0	0.0	0	3	3	22.34	4
23-2000	Legal Support Workers	788	921	133	16.9	13	5	18	n/a	n/a
23-2011	Paralegals and Legal Assistants	558	692	134	24.0	13	3	16	16.97	6
23-2090	Miscellaneous Legal Support Workers	230	229	-1	-0.4	0	2	2	n/a	n/a
23-2093	Title Examiners, Abstractors, and Searchers	115	114	-1	-0.9	0	1	1	16.13	10
23-9000	Miscellaneous Legal & Related Workers	166	216	50	30.1	5	2	7	n/a	n/a

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Education, Training & Library Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Average Annual 2000-2010 Separations	Average Annual 2000-2010 Total		
<b>25-0000</b>	<b>Education, Training, and Library Occupations</b>	<b>19,944</b>	<b>22,926</b>	<b>2,982</b>	<b>15.0</b>	<b>298</b>	<b>396</b>	<b>694</b>	<b>n/a</b>	<b>n/a</b>
<b>25-1000</b>	<b>Postsecondary Teachers</b>	<b>3,212</b>	<b>3,960</b>	<b>748</b>	<b>23.3</b>	<b>75</b>	<b>88</b>	<b>163</b>	<b>n/a</b>	<b>n/a</b>
25-1020	Math and Computer Teachers, Postsecondary	125	157	32	25.6	3	3	6	n/a	n/a
25-1070	Health Teachers, Postsecondary	277	345	68	24.5	7	8	15	n/a	n/a
25-1072	Nursing Instructors & Teachers, Postsec #	81	105	24	29.6	2	2	4	33.93	3
25-1080	Education & Library Science Teachers, Postsec	166	200	34	20.5	3	5	8	n/a	n/a
25-1081	Education Teachers, Postsecondary #	128	154	26	20.3	3	4	7	33.81	2
25-1120	Arts, Comm. & Humanities Teachers, Postsec	264	321	57	21.6	6	7	13	n/a	n/a
25-1190	Miscellaneous Postsecondary Teachers	1,191	1,499	308	25.9	31	33	64	n/a	n/a
25-1194	Vocational Education Teachers, Postsecondary	633	820	187	29.5	19	17	36	21.06	8
25-1199	Postsecondary Teachers, All Other #	335	411	76	22.7	8	9	17	34.78	2
<b>25-2000</b>	<b>Primary, Secondary &amp; Special Ed. Teachers</b>	<b>9,008</b>	<b>9,970</b>	<b>962</b>	<b>10.7</b>	<b>96</b>	<b>190</b>	<b>286</b>	<b>n/a</b>	<b>n/a</b>
25-2010	Preschool and Kindergarten Teachers	1,686	1,679	-7	-0.4	0	21	21	n/a	n/a
25-2011	Preschool Teachers, Except Special Education	1,347	1,307	-40	-3.0	0	17	17	7.97	5
<b>25-3000</b>	<b>Other Teachers and Instructors</b>	<b>3,668</b>	<b>4,283</b>	<b>615</b>	<b>16.8</b>	<b>62</b>	<b>37</b>	<b>99</b>	<b>n/a</b>	<b>n/a</b>
25-3011	Adult Literacy, Remedial Ed. & GED Teachers	*	*	*	*	*	*	*	11.76	5
25-3021	Self-Enrichment Education Teachers	315	372	57	18.1	6	3	9	16.38	8
<b>25-4000</b>	<b>Librarians, Curators, and Archivists</b>	<b>414</b>	<b>439</b>	<b>25</b>	<b>6.0</b>	<b>3</b>	<b>10</b>	<b>13</b>	<b>n/a</b>	<b>n/a</b>
25-4010	Archivists, Curators, and Museum Technicians	73	87	14	19.2	1	2	3	15.53	3
25-4031	Library Technicians	62	71	9	14.5	1	3	4	13.98	11
<b>25-9000</b>	<b>Other Education, Training &amp; Library Occs</b>	<b>3,642</b>	<b>4,274</b>	<b>632</b>	<b>17.4</b>	<b>63</b>	<b>72</b>	<b>135</b>	<b>n/a</b>	<b>n/a</b>
25-9031	Instructional Coordinators	180	233	53	29.4	5	3	8	21.68	3
25-9090	Misc Education, Training, and Library Workers	517	569	52	10.1	5	8	13	n/a	n/a
25-9099	Education, Training & Library Workers, All Other	*	*	*	*	*	*	*	n/a	5
25-9199	Library, Museum, Training & Other Ed., All Other	516	568	52	10.1	5	8	13	12.56	5

~ Education/Training Required Codes- Page 38      n/a - Not Available      \* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# Average hourly wages for teacher occupations were calculated by assuming the average working months per year was 9.5 and hours worked per week was 40.

# KIPDA Area

## Arts, Design, Entertainment, Sports & Media Occs.

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
27-0000	Arts, Design, Entertain., Sports & Media Occs	8,593	10,347	1,754	20.4	175	164	339	n/a	n/a
27-1000	Art and Design Workers	1,228	1,564	336	27.4	34	15	49	n/a	n/a
27-1010	Artists and Related Workers	209	297	88	42.1	9	4	13	n/a	n/a
27-1011	Art Directors	120	170	50	41.7	5	3	8	20.05	4
27-1014	Multi-Media Artists and Animators	77	113	36	46.8	4	2	6	21.09	5
27-1020	Designers	954	1,190	236	24.7	24	9	33	n/a	n/a
27-1021	Commercial and Industrial Designers	123	129	6	4.9	1	1	2	25.33	5
27-1023	Floral Designers	108	125	17	15.7	2	1	3	9.09	10
27-1024	Graphic Designers	480	673	193	40.2	19	5	24	16.18	5
27-1025	Interior Designers	89	100	11	12.4	1	1	2	16.15	5
27-1026	Merchandise Displayers and Window Trimmers	136	143	7	5.1	1	1	2	12.52	10
27-1027	Set and Exhibit Designers	*	*	*	*	*	*	*	11.60	5
27-1099	Art and Design Workers, All Other	65	77	12	18.5	1	1	2	17.86	5
27-2000	Entertainer, Performer, Sport & Related Work	4,688	5,507	819	17.5	82	89	171	n/a	n/a
27-2010	Actors, Producers, and Directors	314	414	100	31.8	10	6	16	n/a	n/a
27-2011	Actors	89	124	35	39.3	4	2	6	n/a	n/a
27-2012	Producers and Directors	225	290	65	28.9	7	4	11	n/a	4
27-2020	Athletes, Coaches, Umpires & Related Workers	229	286	57	24.9	6	5	11	n/a	n/a
27-2022	Coaches and Scouts	168	202	34	20.2	3	3	6	n/a	9
27-2030	Dancers and Choreographers	97	88	-9	-9.3	0	2	2	n/a	n/a
27-2032	Choreographers	70	62	-8	-11.4	0	1	1	13.20	8
27-2090	Misc Entertainers and Performers, Sports	*	*	*	*	*	*	*	n/a	n/a
27-3000	Media and Communication Workers	2,149	2,700	551	25.6	55	47	102	n/a	n/a
27-3020	News Analysts, Reporters and Correspondents	313	338	25	8.0	3	10	13	22.08	9
27-3031	Public Relations Specialists	819	1,196	377	46.0	38	14	52	17.62	5
27-3040	Writers and Editors	630	741	111	17.6	11	17	28	n/a	n/a
27-3041	Editors	335	343	8	2.4	1	11	12	18.55	5
27-3042	Technical Writers	99	147	48	48.5	5	3	8	23.44	5
27-3043	Writers and Authors	196	251	55	28.1	6	3	9	20.53	5
27-3090	Misc Media and Communication Workers	105	154	49	46.7	5	2	7	n/a	n/a
27-3091	Interpreters and Translators	65	98	33	50.8	3	1	4	14.39	9
27-3099	Media and Communication Workers, All Other	40	56	16	40.0	2	1	3	15.17	9

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

Arts, Design, Entertain., Sports & Media Occs. (cont'd)

## Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
27-4000	Media and Communication Equipment Workers	528	576	48	9.1	5	13	18	n/a	n/a
27-4010	Broadcast, Sound Eng. Tech & Radio Operators	214	234	20	9.3	2	6	8	n/a	n/a
27-4011	Audio and Video Equipment Technicians	72	87	15	20.8	2	2	4	13.33	9
27-4012	Broadcast Technicians	139	144	5	3.6	1	4	5	13.49	7
27-4014	Sound Engineering Technicians	*	*	*	*	*	*	*	n/a	n/a
27-4021	Photographers	166	171	5	3.0	1	3	4	14.17	9
27-4030	TV, Video & Motion Picture Camera Operators	142	165	23	16.2	2	3	5	n/a	n/a
27-4031	Camera Ops, Television, Video & Motion Picture	85	102	17	20.0	2	2	4	12.39	10
27-4032	Film and Video Editors	57	63	6	10.5	1	1	2	12.07	5
27-4099	Media & Comm. Equip Worker, All Other	*	*	*	*	*	*	*	19.13	10

~ Education/Training Required Codes- Page 38      n/a - Not Available      \* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Healthcare Practitioners & Technical Occs.

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
29-0000	Healthcare Practitioners & Technical Occs	23,060	28,919	5,859	25.4	586	494	1,080	n/a	n/a
29-1000	Health Diagnosing and Treating Practitioners	14,905	18,767	3,862	25.9	386	307	693	n/a	n/a
29-1020	Dentists	192	211	19	9.9	2	4	6	55.19	1
29-1051	Pharmacists	827	932	105	12.7	11	25	36	38.21	1
29-1060	Physicians and Surgeons	2,177	2,666	489	22.5	49	32	81	n/a	1
29-1061	Anesthesiologists	90	121	31	34.4	3	1	4	69.24	1
29-1062	Family and General Practitioners	247	290	43	17.4	4	4	8	55.11	1
29-1063	Internists, General	121	155	34	28.1	3	2	5	63.91	1
29-1064	Obstetricians and Gynecologists	201	258	57	28.4	6	3	9	64.44	1
29-1065	Pediatricians, General	104	131	27	26.0	3	2	5	61.63	1
29-1067	Surgeons	703	898	195	27.7	20	10	30	68.61	1
29-1071	Physician Assistants	152	238	86	56.6	9	3	12	30.25	5
29-1111	Registered Nurses	9,241	11,603	2,362	25.6	236	187	423	22.16	6
29-1120	Therapists	1,584	2,142	558	35.2	56	40	96	n/a	n/a
29-1122	Occupational Therapists	290	400	110	37.9	11	7	18	24.25	5
29-1123	Physical Therapists	515	723	208	40.4	21	13	34	26.78	3
29-1125	Recreational Therapists	69	68	-1	-1.4	0	2	2	12.37	5
29-1126	Respiratory Therapists	401	532	131	32.7	13	10	23	17.55	6
29-1127	Speech-Language Pathologists	252	348	96	38.1	10	6	16	24.39	3
29-1131	Veterinarians	102	120	18	17.6	2	2	4	35.39	1
29-1199	Health Diagnosing & Treating Pract., All Other	173	199	26	15.0	3	4	7	32.19	1
29-2000	Health Technologists and Technicians	7,585	9,498	1,913	25.2	191	182	373	n/a	n/a
29-2010	Clinical Laboratory Technologist & Technician	1,299	1,603	304	23.4	30	31	61	n/a	n/a
29-2011	Medical and Clinical Laboratory Technologists	698	783	85	12.2	9	16	25	19.89	5
29-2012	Medical and Clinical Laboratory Technicians	601	820	219	36.4	22	14	36	13.18	6
29-2021	Dental Hygienists	305	404	99	32.5	10	4	14	26.39	6
29-2030	Diagnostic Related Technologist & Technician	943	1,158	215	22.8	22	21	43	n/a	n/a
29-2031	Cardiovascular Technologists and Technicians	223	301	78	35.0	8	5	13	15.60	6
29-2032	Diagnostic Medical Sonographers	97	121	24	24.7	2	2	4	21.88	6
29-2033	Nuclear Medicine Technologists	62	75	13	21.0	1	1	2	18.40	6
29-2034	Radiologic Technologists and Technicians	561	661	100	17.8	10	12	22	17.69	6
29-2050	Health Diag. & Treating Pract. Support Tech	1,289	1,653	364	28.2	36	33	69	n/a	n/a
29-2051	Dietetic Technicians	*	*	*	*	*	*	*	11.77	10
29-2052	Pharmacy Technicians	636	773	137	21.5	14	17	31	9.87	10
29-2054	Respiratory Therapy Technicians	80	109	29	36.3	3	2	5	13.72	7
29-2055	Surgical Technologists	373	558	185	49.6	19	10	29	14.77	7
29-2056	Veterinary Technologists and Technicians	69	78	9	13.0	1	2	3	9.78	6
29-2061	Licensed Practical & Vocational Nurses	2,561	3,040	479	18.7	48	66	114	14.59	7

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Healthcare Practitioners & Technical Occs. (cont'd)

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
29-2071	Medical Records & Health Info Technicians	560	838	278	49.6	28	13	41	12.20	6
29-2081	Opticians, Dispensing	93	116	23	24.7	2	2	4	13.23	9
29-2091	Orthotists and Prosthetists	*	*	*	*	*	*	*	17.29	n/a
<b>29-9000</b>	<b>Other Healthcare Pract &amp; Technical Occs</b>	<b>570</b>	<b>654</b>	<b>84</b>	<b>14.7</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>n/a</b>	<b>n/a</b>
29-9010	Occupational Health, Safety Specialists & Tech	96	106	10	10.4	1	3	4	23.46	5
29-9090	Misc Health Practitioners & Technical Workers	474	548	74	15.6	7	2	9	n/a	n/a
29-9091	Athletic Trainers	56	68	12	21.4	1	2	3	n/a	5
29-9099	Healthcare Pract. & Tech. Workers, All Other	418	480	62	14.8	6	0	6	n/a	n/a

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch



# KIPDA Area

## Healthcare Support Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
31-0000	Healthcare Support Occupations	11,383	14,644	3,261	28.6	326	208	534	n/a	n/a
31-1000	Nursing, Psychiatric, and Home Health Aides	6,138	7,439	1,301	21.2	130	78	208	n/a	n/a
31-1010	Nursing, Psychiatric, and Home Health Aides	6,138	7,439	1,301	21.2	130	78	208	n/a	n/a
31-1011	Home Health Aides	980	1,381	401	40.9	40	13	53	8.65	11
31-1012	Nursing Aides, Orderlies, and Attendants	4,943	5,841	898	18.2	90	63	153	9.69	11
31-2000	Occupational & Physical Therapist Assistants	510	750	240	47.1	24	15	39	n/a	n/a
31-2010	Occupational Therapist Assistants and Aides	76	103	27	35.5	3	2	5	n/a	n/a
31-2011	Occupational Therapist Assistants	49	69	20	40.8	2	2	4	16.60	6
31-2012	Occupational Therapist Aides	*	*	*	*	*	*	*	11.67	11
31-2020	Physical Therapist Assistants and Aides	434	647	213	49.1	21	13	34	n/a	n/a
31-2021	Physical Therapist Assistants	285	424	139	48.8	14	8	22	17.26	6
31-2022	Physical Therapist Aides	149	223	74	49.7	7	4	11	9.61	11
31-9000	Other Healthcare Support Occupations	4,735	6,455	1,720	36.3	172	115	287	n/a	n/a
31-9011	Massage Therapists	63	70	7	11.1	1	2	3	11.70	7
31-9090	Miscellaneous Healthcare Support Occupations	4,672	6,385	1,713	36.7	171	113	284	n/a	n/a
31-9091	Dental Assistants	1,223	1,659	436	35.7	44	22	66	14.11	10
31-9092	Medical Assistants	1,322	2,138	816	61.7	82	35	117	11.01	10
31-9093	Medical Equipment Preparers	261	319	58	22.2	6	7	13	11.73	11
31-9094	Medical Transcriptionists	478	632	154	32.2	15	13	28	12.61	7
31-9095	Pharmacy Aides	344	349	5	1.5	1	9	10	9.09	11
31-9096	Veterinary Assist. & Lab. Animal Caretaker	202	228	26	12.9	3	5	8	8.93	11
31-9099	Healthcare Support Workers, All Other	842	1,060	218	25.9	22	22	44	10.64	11

~ Education/Training Required Codes- Page 38      n/a - Not Available      \* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Protective Service Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2010 Percent	Average Annual 2000-2010 Growth Separations Total				
33-0000	Protective Service Occupations	9,860	12,193	2,333	23.7	233	306	539	n/a	n/a
33-1000	Supervisors, Protective Service Workers	1,062	1,293	231	21.8	23	28	51	n/a	n/a
33-1010	Supervisors, Law Enforcement Workers	523	665	142	27.2	14	11	25	n/a	n/a
33-1099	Supervisors, Protective Service Workers	333	375	42	12.6	4	10	14	13.69	8
33-2000	Fire Fighting and Prevention Workers	530	660	130	24.5	13	14	27	n/a	n/a
33-3000	Law Enforcement Workers	2,677	3,641	964	36.0	96	61	157	n/a	n/a
33-3021	Detectives and Criminal Investigators	133	166	33	24.8	3	3	6	22.62	8
33-3050	Police Officers	1,216	1,715	499	41.0	50	26	76	n/a	n/a
33-3051	Police and Sheriff's Patrol Officers	1,213	1,713	500	41.2	50	26	76	16.60	9
33-3052	Transit and Railroad Police	*	*	*	*	*	*	*	n/a	9
33-9000	Other Protective Service Workers	5,591	6,599	1,008	18.0	101	204	305	n/a	n/a
33-9021	Private Detectives and Investigators	97	93	-4	-4.1	0	3	3	13.46	8
33-9032	Security Guards	4,431	5,187	756	17.1	76	121	197	9.61	11
33-9090	Miscellaneous Protective Service Workers	1,058	1,312	254	24.0	25	80	105	n/a	n/a
33-9099	Protective Service Workers, All Other	1,035	1,284	249	24.1	25	79	104	10.39	11

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Food Preparation & Serving Related Occs

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
35-0000 Food Preparation & Serving Related Occs		39,806	45,845	6,039	15.2	604	1,779	2,383	n/a	n/a
35-1000	Supervisors, Food Prep. & Serving Workers	3,154	3,464	310	9.8	31	81	112	n/a	n/a
35-1010	Supervisors, Food Preparation & Serving	3,154	3,464	310	9.8	31	81	112	n/a	n/a
35-1011	Chefs and Head Cooks	293	310	17	5.8	2	9	11	13.76	7
35-1012	Supervisors of Food Preparation & Serving	2,861	3,154	293	10.2	29	72	101	11.42	8
35-2000	Cooks and Food Preparation Workers	12,598	13,576	978	7.8	98	392	490	n/a	n/a
35-2010	Cooks	9,318	9,909	591	6.3	59	265	324	n/a	n/a
35-2011	Cooks, Fast Food	4,864	4,825	-39	-0.8	0	138	138	7.42	11
35-2012	Cooks, Institution and Cafeteria	1,532	1,607	75	4.9	8	44	52	9.37	9
35-2013	Cooks, Private Household	*	*	*	*	*	*	*	n/a	9
35-2014	Cooks, Restaurant	2,463	3,003	540	21.9	54	70	124	9.61	9
35-2021	Food Preparation Workers	3,280	3,667	387	11.8	39	127	166	8.77	11
35-3000	Food and Beverage Serving Workers	19,866	24,692	4,826	24.3	483	1,164	1,647	n/a	n/a
35-3011	Bartenders	1,611	1,793	182	11.3	18	64	82	6.86	11
35-3020	Fast Food and Counter Workers	11,811	15,462	3,651	30.9	365	750	1,115	n/a	n/a
35-3021	Combined Food Prep. & Serving Workers	10,170	13,598	3,428	33.7	343	623	966	6.91	11
35-3022	Counter Attend, Cafeteria, Food Concession	1,641	1,864	223	13.6	22	127	149	7.02	11
35-3031	Waiters and Waitresses	5,466	6,382	916	16.8	92	308	400	6.78	11
35-3041	Food Servers, Nonrestaurant	978	1,055	77	7.9	8	43	51	7.50	11
35-9000	Other Food Prep. & Serving Related Workers	4,188	4,113	-75	-1.8	0	142	142	n/a	n/a
35-9011	Dining Room, Cafeteria Attend & Bartender Help	1,465	1,326	-139	-9.5	0	49	49	6.87	11
35-9021	Dishwashers	1,458	1,323	-135	-9.3	0	55	55	7.93	11
35-9031	Hosts & Hostesses, Restaurant, Lounge	1,200	1,402	202	16.8	20	36	56	7.75	11
35-9099	Food Prep. & Serving Related Worker, All Other	65	62	-3	-4.6	0	3	3	9.00	n/a

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Building, Grounds Cleaning & Maintenance Occs.

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Average Annual 2000-2010 Separations	Average Annual 2000-2010 Total		
<b>37-0000</b>	<b>Building, Grounds Cleaning &amp; Maintenance Occs</b>	<b>19,395</b>	<b>21,794</b>	<b>2,399</b>	<b>12.4</b>	<b>240</b>	<b>400</b>	<b>640</b>	<b>n/a</b>	<b>n/a</b>
<b>37-1000</b>	<b>Supervisors, Build., Grounds Clean. &amp; Maint.</b>	<b>1,182</b>	<b>1,291</b>	<b>109</b>	<b>9.2</b>	<b>11</b>	<b>25</b>	<b>36</b>	<b>n/a</b>	<b>n/a</b>
37-1010	Supervisors, Building and Grounds Cleaning	1,182	1,291	109	9.2	11	25	36	n/a	n/a
37-1011	Supervisors of Housekeeping and Janitors	870	943	73	8.4	7	24	31	12.87	8
37-1012	Supervisors of Landscaping, Lawn Service	312	348	36	11.5	4	2	6	16.42	8
<b>37-2000</b>	<b>Building Cleaning and Pest Control Workers</b>	<b>14,700</b>	<b>16,040</b>	<b>1,340</b>	<b>9.1</b>	<b>134</b>	<b>288</b>	<b>422</b>	<b>n/a</b>	<b>n/a</b>
37-2010	Building Cleaning Workers	14,522	15,820	1,298	8.9	130	284	414	n/a	n/a
37-2011	Janitors, Cleaners, Ex. Maids & Housekeeping	8,500	9,566	1,066	12.5	107	154	261	9.04	11
37-2012	Maids and Housekeeping Cleaners	6,022	6,254	232	3.9	23	131	154	8.36	11
37-2021	Pest Control Workers	178	220	42	23.6	4	4	8	9.82	10
<b>37-3000</b>	<b>Grounds Maintenance Workers</b>	<b>3,313</b>	<b>4,224</b>	<b>911</b>	<b>27.5</b>	<b>91</b>	<b>83</b>	<b>174</b>	<b>n/a</b>	<b>n/a</b>
37-3010	Grounds Maintenance Workers	3,313	4,224	911	27.5	91	83	174	n/a	n/a
37-3011	Landscaping and Groundskeeping Workers	2,612	3,395	783	30.0	78	66	144	10.23	11
37-3012	Pesticide Handler, Sprayer & Applicator	73	83	10	13.7	1	2	3	11.61	10
37-3019	Grounds Maintenance Workers, All Other	*	*	*	*	*	*	*	19.06	11
<b>37-9000</b>	<b>Misc Building, Grounds Cleaning &amp; Maint. Work</b>	<b>200</b>	<b>239</b>	<b>39</b>	<b>19.5</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
37-9099	Build, Grounds Clean. & Maint. Work, All Other	200	239	39	19.5	4	4	8	10.45	11

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Personal Care & Service Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual Growth	2000-2010 Separations	2000-2010 Total		
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>22,096</b>	<b>26,488</b>	<b>4,392</b>	<b>19.9</b>	<b>439</b>	<b>669</b>	<b>1,108</b>	<b>n/a</b>	<b>n/a</b>
<b>39-1000</b>	<b>Supervisors, Personal Care &amp; Service Workers</b>	<b>220</b>	<b>259</b>	<b>39</b>	<b>17.7</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>n/a</b>	<b>n/a</b>
39-1021	Supervisors of Personal Service Workers	218	257	39	17.9	4	6	10	15.63	8
<b>39-2000</b>	<b>Animal Care and Service Workers</b>	<b>575</b>	<b>681</b>	<b>106</b>	<b>18.4</b>	<b>11</b>	<b>12</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>
39-2011	Animal Trainers	259	310	51	19.7	5	5	10	11.82	n/a
39-2021	Nonfarm Animal Caretakers	316	371	55	17.4	6	7	13	7.72	11
<b>39-3000</b>	<b>Entertainment Attendants and Related Workers</b>	<b>977</b>	<b>1,156</b>	<b>179</b>	<b>18.3</b>	<b>18</b>	<b>45</b>	<b>63</b>	<b>n/a</b>	<b>n/a</b>
39-3021	Motion Picture Projectionists	*	*	*	*	*	*	*	11.43	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	267	319	52	19.5	5	21	26	7.28	11
39-3090	Misc Entertainment Attend. & Related Workers	622	756	134	21.5	13	21	34	n/a	n/a
39-3091	Amusement and Recreation Attendants	456	588	132	28.9	13	15	28	7.10	11
39-3093	Lockers, Coatroom & Dressing Room Attend	91	97	6	6.6	1	3	4	7.90	8
<b>39-4000</b>	<b>Funeral Service Workers</b>	<b>122</b>	<b>156</b>	<b>34</b>	<b>27.9</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>
39-4021	Funeral Attendants	90	121	31	34.4	3	2	5	7.82	11
<b>39-5000</b>	<b>Personal Appearance Workers</b>	<b>1,269</b>	<b>1,228</b>	<b>-41</b>	<b>-3.2</b>	<b>0</b>	<b>31</b>	<b>31</b>	<b>n/a</b>	<b>n/a</b>
39-5010	Barbers and Cosmetologists	1,117	1,064	-53	-4.7	0	28	28	n/a	n/a
39-5011	Barbers	57	43	-14	-24.6	0	2	2	16.45	n/a
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,060	1,021	-39	-3.7	0	26	26	13.43	7
39-5090	Miscellaneous Personal Appearance Workers	152	164	12	7.9	1	4	5	n/a	n/a
39-5092	Manicurists and Pedicurists	104	119	15	14.4	2	3	5	11.94	7
39-5094	Skin Care Specialists	*	*	*	*	*	*	*	10.52	7
<b>39-6000</b>	<b>Transportation, Tourism &amp; Lodging Attendants</b>	<b>2,381</b>	<b>3,508</b>	<b>1,127</b>	<b>47.3</b>	<b>113</b>	<b>82</b>	<b>195</b>	<b>n/a</b>	<b>n/a</b>
39-6010	Baggage Porters, Bellhops, and Concierges	143	150	7	4.9	1	5	6	n/a	n/a
39-6011	Baggage Porters and Bellhops	98	98	0	0.0	0	3	3	7.02	11
39-6012	Concierges	45	52	7	15.6	1	2	3	9.84	n/a
39-6020	Tour and Travel Guides	76	87	11	14.5	1	2	3	n/a	n/a
39-6021	Tour Guides and Escorts	63	70	7	11.1	1	2	3	10.09	n/a
39-6030	Transportation Attendants	2,162	3,271	1,109	51.3	111	75	186	n/a	n/a
<b>39-9000</b>	<b>Other Personal Care and Service Workers</b>	<b>16,552</b>	<b>19,500</b>	<b>2,948</b>	<b>17.8</b>	<b>295</b>	<b>491</b>	<b>786</b>	<b>n/a</b>	<b>n/a</b>
39-9011	Child Care Workers	11,407	12,820	1,413	12.4	141	387	528	7.45	11
39-9021	Personal and Home Care Aides	692	976	284	41.0	28	11	39	7.67	11
39-9030	Recreation and Fitness Workers	4,071	5,243	1,172	28.8	117	84	201	n/a	n/a
39-9031	Fitness Trainers and Aerobics Instructors	517	648	131	25.3	13	11	24	10.14	7
39-9099	Personal Care and Service Workers, All Other	168	197	29	17.3	3	4	7	8.46	10

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Sales & Related Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	Percent	Average Annual 2000-2010 Growth	Separations	Total		
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>51,672</b>	<b>55,615</b>	<b>3,943</b>	<b>7.6</b>	<b>394</b>	<b>1,663</b>	<b>2,057</b>	<b>n/a</b>	<b>n/a</b>
<b>41-1000</b>	<b>Supervisors, Sales Workers</b>	<b>5,578</b>	<b>5,849</b>	<b>271</b>	<b>4.9</b>	<b>27</b>	<b>81</b>	<b>108</b>	<b>n/a</b>	<b>n/a</b>
41-1010	Supervisors, Sales Workers	5,578	5,849	271	4.9	27	81	108	n/a	n/a
41-1011	Supervisors of Retail Sales Workers	4,439	4,629	190	4.3	19	64	83	14.63	8
41-1012	Supervisors of Non-Retail Sales Workers	1,139	1,220	81	7.1	8	17	25	24.18	8
<b>41-2000</b>	<b>Retail Sales Workers</b>	<b>27,810</b>	<b>29,003</b>	<b>1,193</b>	<b>4.3</b>	<b>119</b>	<b>1,145</b>	<b>1,264</b>	<b>n/a</b>	<b>n/a</b>
41-2011	Cashiers	11,540	11,398	-142	-1.2	0	523	523	7.46	11
41-2020	Counter, Rental Clerks & Parts Salespersons	2,341	2,771	430	18.4	43	93	136	n/a	n/a
41-2021	Counter and Rental Clerks	1,471	2,002	531	36.1	53	67	120	9.10	11
41-2022	Parts Salespersons	870	769	-101	-11.6	0	26	26	12.89	10
41-2031	Retail Salespersons	13,929	14,834	905	6.5	91	530	621	10.35	11
<b>41-3000</b>	<b>Sales Representatives, Services</b>	<b>4,309</b>	<b>5,027</b>	<b>718</b>	<b>16.7</b>	<b>72</b>	<b>83</b>	<b>155</b>	<b>n/a</b>	<b>n/a</b>
41-3011	Advertising Sales Agents	701	894	193	27.5	19	14	33	18.24	10
41-3021	Insurance Sales Agents	1,422	1,544	122	8.6	12	36	48	30.16	5
41-3031	Security, Commodity & Financial Serv. Sales	1,144	1,327	183	16.0	18	9	27	23.90	5
41-3041	Travel Agents	248	270	22	8.9	2	6	8	11.35	7
41-3099	Sales Representatives, Services, All Other	794	992	198	24.9	20	18	38	16.29	10
<b>41-4000</b>	<b>Sales Reps, Wholesale and Manufacturing</b>	<b>9,092</b>	<b>9,813</b>	<b>721</b>	<b>7.9</b>	<b>72</b>	<b>247</b>	<b>319</b>	<b>n/a</b>	<b>n/a</b>
41-4010	Sales Reps, Wholesale and Manufacturing	9,092	9,813	721	7.9	72	247	319	n/a	n/a
41-4011	Sales Reps, Wholesale & Manufacturing, Tech.	2,071	2,348	277	13.4	28	56	84	29.19	10
41-4012	Sales Reps, Wholesale & Manuf., Ex. Tech	7,021	7,465	444	6.3	44	191	235	21.58	10
<b>41-9000</b>	<b>Other Sales and Related Workers</b>	<b>4,883</b>	<b>5,923</b>	<b>1,040</b>	<b>21.3</b>	<b>104</b>	<b>106</b>	<b>210</b>	<b>n/a</b>	<b>n/a</b>
41-9010	Models, Demonstrators, and Product Promoters	218	245	27	12.4	3	7	10	n/a	n/a
41-9011	Demonstrators and Product Promoters	213	239	26	12.2	3	7	10	16.48	10
41-9020	Real Estate Brokers and Sales Agents	503	634	131	26.0	13	9	22	n/a	n/a
41-9021	Real Estate Brokers	61	77	16	26.2	2	1	3	24.27	8
41-9022	Real Estate Sales Agents	442	557	115	26.0	12	8	20	15.33	7
41-9031	Sales Engineers	241	275	34	14.1	3	6	9	30.73	5
41-9041	Telemarketers	1,693	1,973	280	16.5	28	35	63	9.04	11
41-9090	Miscellaneous Sales and Related Workers	2,228	2,796	568	25.5	57	49	106	n/a	n/a
41-9099	Sales and Related Workers, All Other	2,125	2,680	555	26.1	56	47	103	17.91	10

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
43-0000 Office and Administrative Support Occupations		93,524	102,453	8,929	9.5	893	1,984	2,877	n/a	n/a
43-1000	Supervisors, Office & Admin. Support Workers	6,055	6,732	677	11.2	68	117	185	n/a	n/a
43-1011	Supervisors of Office and Administrative	6,055	6,732	677	11.2	68	117	185	17.41	8
43-2000	Communications Equipment Operators	811	659	-152	-18.7	0	24	24	n/a	n/a
43-2011	Switchboard Ops, Inc. Answering Service	789	641	-148	-18.8	0	23	23	10.15	11
43-3000	Financial Clerks	15,268	16,158	890	5.8	89	385	474	n/a	n/a
43-3011	Bill and Account Collectors	2,622	3,094	472	18.0	47	65	112	11.48	11
43-3021	Billing, Posting Clerks and Machine Operators	3,049	3,420	371	12.2	37	75	112	12.18	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,718	7,099	381	5.7	38	128	166	12.71	10
43-3051	Payroll and Timekeeping Clerks	669	671	2	0.3	0	19	19	13.66	11
43-3061	Procurement Clerks	337	293	-44	-13.1	0	8	8	12.71	11
43-3071	Tellers	1,873	1,581	-292	-15.6	0	90	90	9.48	11
43-4000	Information and Record Clerks	19,965	24,389	4,424	22.2	442	329	771	n/a	n/a
43-4021	Correspondence Clerks	96	101	5	5.2	1	3	4	13.49	11
43-4041	Credit Authorizers, Checkers, and Clerks	212	247	35	16.5	4	2	6	12.55	11
43-4051	Customer Service Representatives	8,103	11,078	2,975	36.7	298	69	367	12.77	10
43-4071	File Clerks	871	969	98	11.3	10	28	38	9.04	11
43-4081	Hotel, Motel, and Resort Desk Clerks	486	581	95	19.5	10	21	31	8.04	11
43-4111	Interviewers, Except Eligibility and Loan	1,144	1,317	173	15.1	17	24	41	10.13	11
43-4121	Library Assistants, Clerical	158	179	21	13.3	2	7	9	8.98	11
43-4131	Loan Interviewers and Clerks	760	610	-150	-19.7	0	5	5	12.77	11
43-4151	Order Clerks	1,220	1,024	-196	-16.1	0	26	26	12.53	11
43-4161	Human Res. Assist, Ex. Payroll & Timekeeping	466	561	95	20.4	10	11	21	13.55	11
43-4171	Receptionists and Information Clerks	3,953	4,925	972	24.6	97	87	184	10.07	11
43-4999	Financial, Info. & Record Clerks, All Other	1,100	1,133	33	3.0	3	15	18	12.73	11
43-5000	Material Record, Schedule, Dispatch, Distribute	18,884	19,435	551	2.9	55	528	583	n/a	n/a
43-5030	Dispatchers	647	758	111	17.2	11	11	22	n/a	n/a
43-5032	Dispatchers, Except Police, Fire & Ambulance	464	522	58	12.5	6	8	14	14.33	10
43-5041	Meter Readers, Utilities	207	153	-54	-26.1	0	5	5	15.09	11
43-5050	Postal Service Workers	2,767	2,511	-256	-9.3	0	72	72	n/a	n/a
43-5051	Postal Service Clerks	272	247	-25	-9.2	0	6	6	18.57	11
43-5052	Postal Service Mail Carriers	1,342	1,218	-124	-9.2	0	41	41	18.19	11
43-5053	Postal Service Mail Sorter, Processor	1,153	1,046	-107	-9.3	0	25	25	15.39	11
43-5061	Production, Planning, and Expediting Clerks	1,365	1,657	292	21.4	29	23	52	14.92	11
43-5071	Shipping, Receiving, and Traffic Clerks	3,550	4,241	691	19.5	69	72	141	11.36	11
43-5081	Stock Clerks and Order Fillers	7,770	7,955	185	2.4	19	277	296	10.22	11
43-5111	Weigh, Measure, Check & Sample, Records	418	458	40	9.6	4	10	14	11.10	11

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch



# KIPDA Area

## Office & Administrative Support Occs. (cont'd)

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
43-6000	Secretaries and Administrative Assistants	15,068	15,922	854	5.7	85	256	341	n/a	n/a
43-6010	Secretaries and Administrative Assistants	15,068	15,922	854	5.7	85	256	341	n/a	n/a
43-6011	Executive Secretaries & Administrative Assist	5,652	6,196	544	9.6	54	96	150	14.83	10
43-6012	Legal Secretaries	562	626	64	11.4	6	10	16	15.24	7
43-6013	Medical Secretaries	1,138	1,326	188	16.5	19	19	38	11.84	7
43-6014	Secretaries, Except Legal, Medical & Executive	7,716	7,774	58	0.8	6	131	137	11.36	10
43-9000	Other Office & Administrative Support Workers	17,473	19,158	1,685	9.6	169	346	515	n/a	n/a
43-9011	Computer Operators	596	491	-105	-17.6	0	11	11	14.31	10
43-9020	Data Entry and Information Processing Workers	2,560	2,873	313	12.2	31	42	73	n/a	n/a
43-9021	Data Entry Keyers	2,139	2,494	355	16.6	36	34	70	10.44	10
43-9022	Word Processors and Typists	421	379	-42	-10.0	0	9	9	11.33	10
43-9031	Desktop Publishers	117	197	80	68.4	8	2	10	13.41	7
43-9041	Insurance Claims and Policy Processing Clerks	1,225	926	-299	-24.4	0	21	21	14.67	10
43-9051	Mail Clerks & Mail Machine Ops, Ex. Postal Serv	1,390	1,748	358	25.8	36	41	77	9.87	11
43-9061	Office Clerks, General	9,847	11,146	1,299	13.2	130	189	319	11.43	11
43-9071	Office Machine Operators, Except Computer	445	419	-26	-5.8	0	16	16	9.06	11
43-9111	Statistical Assistants	44	53	9	20.5	1	0	1	13.85	10
43-9999	Secretary, Admin. Assist. & Other Office Support	1,056	1,117	61	5.8	6	17	23	14.84	11

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch



# KIPDA Area

## Farming, Fishing & Forestry Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Separations	Total		
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>1,286</b>	<b>1,513</b>	<b>227</b>	<b>17.7</b>	<b>23</b>	<b>40</b>	<b>63</b>	<b>n/a</b>	<b>n/a</b>
<b>45-1000</b>	<b>Supervisors, Farming, Fishing &amp; Forestry Work</b>	<b>38</b>	<b>45</b>	<b>7</b>	<b>18.4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>n/a</b>	<b>n/a</b>
45-1011	Supervisors of Farming, Fishing, and Forestry	38	45	7	18.4	1	0	1	15.91	10
<b>45-2000</b>	<b>Agricultural Workers</b>	<b>844</b>	<b>984</b>	<b>140</b>	<b>16.6</b>	<b>14</b>	<b>27</b>	<b>41</b>	<b>n/a</b>	<b>n/a</b>
45-2090	Miscellaneous Agricultural Workers	749	888	139	18.6	14	25	39	n/a	n/a
45-2092	Farmworker/Labor, Crop, Nursery, Greenhouse	109	145	36	33.0	4	4	8	9.89	n/a
45-2093	Farmworkers, Farm and Ranch Animals	628	733	105	16.7	11	21	32	9.80	10
45-2099	Agricultural Workers, All Other	*	*	*	*	*	*	*	n/a	n/a
<b>45-3000</b>	<b>Fishing and Hunting Workers</b>	<b>395</b>	<b>475</b>	<b>80</b>	<b>20.3</b>	<b>8</b>	<b>13</b>	<b>21</b>	<b>n/a</b>	<b>n/a</b>
45-3010	Fishers and Related Fishing Workers	395	475	80	20.3	8	13	21	n/a	n/a
<b>45-4000</b>	<b>Forest, Conservation, and Logging Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
45-4020	Logging Workers	*	*	*	*	*	*	*	n/a	n/a
<b>45-9000</b>	<b>Other Farming, Fishing, and Forestry Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
47-0000 Construction and Extraction Occupations		24,586	28,696	4,110	16.7	411	514	925	n/a	n/a
47-1000	Supervisors, Const. & Extraction Workers	2,340	2,717	377	16.1	38	53	91	n/a	n/a
47-1011	Supervisors of Construction Trades & Extraction	2,340	2,717	377	16.1	38	53	91	21.71	8
47-2000	Construction Trades Workers	18,042	21,116	3,074	17.0	307	296	603	n/a	n/a
47-2011	Boilermakers	*	*	*	*	*	*	*	22.07	9
47-2020	Brickmasons, Blockmasons & Stonemasons	489	567	78	16.0	8	9	17	n/a	n/a
47-2031	Carpenters	2,837	3,188	351	12.4	35	48	83	15.53	9
47-2040	Carpet, Floor, and Tile Installers and Finishers	287	316	29	10.1	3	5	8	n/a	n/a
47-2041	Carpet Installers	61	63	2	3.3	0	1	1	14.51	10
47-2050	Cement Mason, Concrete & Terrazzo Work	432	435	3	0.7	0	4	4	n/a	n/a
47-2051	Cement Masons and Concrete Finishers	374	375	1	0.3	0	3	3	13.25	9
47-2061	Construction Laborers	2,845	3,373	528	18.6	53	26	79	11.40	10
47-2070	Construction Equipment Operators	1,559	1,760	201	12.9	20	33	53	n/a	n/a
47-2071	Paving, Surfacing & Tamping Equip. Operators	353	393	40	11.3	4	7	11	12.96	10
47-2073	Operating Engineers & Other Const. Equip. Ops	1,204	1,365	161	13.4	16	26	42	16.27	10
47-2080	Drywall Installer, Ceiling Tile Installer & Taper	363	416	53	14.6	5	4	9	n/a	n/a
47-2081	Drywall and Ceiling Tile Installers	278	319	41	14.7	4	3	7	15.04	10
47-2082	Tapers	85	97	12	14.1	1	1	2	15.91	10
47-2111	Electricians	3,394	4,238	844	24.9	84	63	147	19.80	9
47-2121	Glaziers	392	490	98	25.0	10	7	17	13.18	9
47-2140	Painters and Paperhangers	1,082	1,162	80	7.4	8	19	27	n/a	n/a
47-2141	Painters, Construction and Maintenance	977	1,042	65	6.7	7	17	24	13.00	10
47-2150	Pipelayers, Plumbers, Pipefitters & Steamfitters	2,490	2,988	498	20.0	50	41	91	n/a	n/a
47-2152	Plumbers, Pipefitters, and Steamfitters	2,374	2,846	472	19.9	47	39	86	20.21	9
47-2171	Reinforcing Iron and Rebar Workers	47	53	6	12.8	1	1	2	17.61	9
47-2181	Roofers	467	512	45	9.6	5	11	16	14.00	10
47-2211	Sheet Metal Workers	764	960	196	25.7	20	16	36	17.98	10
47-2221	Structural Iron and Steel Workers	412	462	50	12.1	5	4	9	18.65	9
47-3000	Helpers, Construction Trades	2,722	3,166	444	16.3	44	135	179	n/a	n/a
47-3010	Helpers, Construction Trades	2,722	3,166	444	16.3	44	135	179	n/a	n/a
47-3011	Helpers--Brick, Block, Stone & Tile	277	319	42	15.2	4	14	18	14.08	11
47-3012	Helpers--Carpenters	384	404	20	5.2	2	19	21	10.12	11
47-3013	Helpers--Electricians	914	1,066	152	16.6	15	45	60	10.48	11
47-3014	Helpers--Paint, Paperhanger, Plaster & Stucco	33	37	4	12.1	0	2	2	9.57	11
47-3015	Helpers--Pipe, Plumber, Pipefitter & Steamfitter	917	1,089	172	18.8	17	46	63	11.21	11
47-3016	Helpers--Roofers	85	93	8	9.4	1	4	5	10.42	11

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Construction & Extraction Occupations (cont'd)

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	Estimated	Projected	Number	Percent	Growth	Average Annual 2000-2010 Separations	Total		
<b>47-4000</b>	<b>Other Construction and Related Workers</b>	<b>1,455</b>	<b>1,667</b>	<b>212</b>	<b>14.6</b>	<b>21</b>	<b>29</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>
47-4011	Construction and Building Inspectors	197	294	97	49.2	10	5	15	18.80	8
47-4021	Elevator Installers and Repairers	92	114	22	23.9	2	3	5	21.49	9
47-4031	Fence Erectors	135	138	3	2.2	0	2	2	12.77	10
47-4041	Hazardous Materials Removal Workers	132	156	24	18.2	2	4	6	15.13	10
47-4061	Rail-Track Laying & Maintenance Equip. Ops	45	24	-21	-46.7	0	1	1	n/a	10
<b>47-5000</b>	<b>Extraction Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
47-5021	Earth Drillers, Except Oil and Gas	*	*	*	*	*	*	*	12.90	10
47-5031	Explosives, Ordnance Hand. Experts, Blasters	*	*	*	*	*	*	*	13.40	n/a

~ Education/Training Required Codes- Page 38      n/a - Not Available      \* Employment under 30 and unreliable data suppressed  
Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Installation, Maintenance & Repair Occs.

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
49-0000	Installation, Maintenance & Repair Occupations	22,967	27,200	4,233	18.4	423	494	917	n/a	n/a
49-1000	Supervisors, Installation, Maint. & Repair Work	1,899	2,194	295	15.5	30	49	79	n/a	n/a
49-1011	Supervisors of Mechanics, Installers	1,899	2,194	295	15.5	30	49	79	22.46	8
49-2000	Electrical & Electronic Equip Mech., Installers	2,425	3,139	714	29.4	71	40	111	n/a	n/a
49-2011	Computer, Auto Teller & Office Machine Repair	918	1,276	358	39.0	36	10	46	14.31	7
49-2020	Radio & Telecommunications Equip. Installers	457	466	9	2.0	1	9	10	n/a	n/a
49-2022	Telecommunications Equip Installer & Repairer	451	462	11	2.4	1	9	10	18.60	7
49-2090	Misc Electrical & Electronic Equipment	1,050	1,397	347	33.0	35	22	57	n/a	n/a
49-2092	Electric Motor, Power Tool & Related Repairers	270	382	112	41.5	11	6	17	17.12	7
49-2094	Electrical & Electronics Repair, Commc	305	424	119	39.0	12	6	18	19.22	7
49-2095	Electrical & Electronics Repairers, Powerhouse	42	37	-5	-11.9	0	1	1	25.96	7
49-2097	Electronic Home Entertain Equip. Install, Repair	164	256	92	56.1	9	3	12	15.53	7
49-2098	Security and Fire Alarm Systems Installers	104	129	25	24.0	3	2	5	18.34	7
49-2099	Electrical & Electronic Equip. Mechanic, Installer	65	77	12	18.5	1	2	3	18.33	7
49-3000	Vehicle & Mobile Equip. Mechanics, Installers	8,414	10,564	2,150	25.6	215	203	418	n/a	n/a
49-3020	Automotive Technicians and Repairers	3,128	3,569	441	14.1	44	75	119	n/a	n/a
49-3021	Automotive Body and Related Repairers	592	662	70	11.8	7	15	22	18.06	9
49-3023	Automotive Service Technicians and Mechanics	2,386	2,745	359	15.0	36	56	92	13.02	7
49-3031	Bus, Truck Mechanics & Diesel Engine Spec	1,387	1,563	176	12.7	18	36	54	16.68	7
49-3040	Heavy Vehicle & Mobile Equipment Service Tech	712	771	59	8.3	6	18	24	n/a	n/a
49-3042	Mobile Heavy Equip Mechanics, Ex. Engines	445	525	80	18.0	8	12	20	17.42	7
49-3050	Small Engine Mechanics	201	276	75	37.3	8	5	13	n/a	n/a
49-3052	Motorcycle Mechanics	38	41	3	7.9	0	1	1	10.25	9
49-3053	Outdoor Power Equip, Other Small Engine Mech	150	220	70	46.7	7	4	11	12.17	10
49-3090	Misc Vehicle & Mobile Equip. Mechanics, Install	327	329	2	0.6	0	13	13	n/a	n/a
49-3093	Tire Repairers and Changers	219	193	-26	-11.9	0	8	8	9.73	11
49-9000	Other Installation, Maint. & Repair Occupations	10,229	11,303	1,074	10.5	107	202	309	n/a	n/a
49-9021	Heating, Air Conditioning & Refrigeration Mech.	628	929	301	47.9	30	7	37	16.64	9
49-9031	Home Appliance Repairers	160	429	269	168.1	27	3	30	14.87	9
49-9040	Industrial Mach. Installation, Repair & Maint.	6,862	6,985	123	1.8	12	114	126	n/a	n/a
49-9041	Industrial Machinery Mechanics	914	920	6	0.7	1	25	26	19.56	9
49-9042	Maintenance and Repair Workers, General	5,154	5,221	67	1.3	7	67	74	14.13	9
49-9043	Maintenance Workers, Machinery	341	374	33	9.7	3	9	12	15.51	9
49-9044	Millwrights	453	470	17	3.8	2	14	16	21.76	9
49-9050	Line Installers and Repairers	562	622	60	10.7	6	15	21	n/a	n/a
49-9051	Electrical Power-Line Installers and Repairers	322	301	-21	-6.5	0	11	11	21.03	9
49-9052	Telecommunications Line Installer & Repairer	240	321	81	33.8	8	5	13	15.76	9

# KIPDA Area

## Installation, Maintenance & Repair Occs. (cont'd)

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
49-9060	Precision Instrument and Equipment Repairers	369	459	90	24.4	9	9	18	n/a	n/a
49-9062	Medical Equipment Repairers	192	265	73	38.0	7	5	12	18.39	10
49-9063	Musical Instrument Repairers and Tuners	*	*	*	*	*	*	*	11.03	9
49-9069	Precision Instrument, Equip Repairer, All Other	79	91	12	15.2	1	2	3	20.42	9
49-9090	Misc Installation, Maintenance & Repair Worker	1,400	1,584	184	13.1	18	46	64	n/a	n/a
49-9094	Locksmiths and Safe Repairers	42	43	1	2.4	0	1	1	9.93	10
49-9097	Signal and Track Switch Repairers	*	*	*	*	*	*	*	n/a	9
49-9098	Helpers--Installation, Maint. & Repair Workers	532	625	93	17.5	9	27	36	9.66	11
49-9099	Installation, Maint. & Repair Workers, All Other	545	635	90	16.5	9	11	20	15.46	9

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

# KIPDA Area

## Production Occupations

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
51-0000	Production Occupations	53,281	56,292	3,011	5.7	301	1,173	1,474	n/a	n/a
51-1000	Supervisors, Production Workers	3,118	3,143	25	0.8	3	82	85	n/a	n/a
51-1011	Supervisors of Production and Operating Work	3,118	3,143	25	0.8	3	82	85	21.18	8
51-2000	Assemblers and Fabricators	15,568	16,339	771	5.0	77	279	356	n/a	n/a
51-2031	Engine and Other Machine Assemblers	65	70	5	7.7	1	1	2	12.10	11
51-2041	Structural Metal Fabricators and Fitters	568	656	88	15.5	9	9	18	12.73	10
51-2090	Miscellaneous Assemblers and Fabricators	14,015	14,736	721	5.1	72	245	317	n/a	n/a
51-2099	Assemblers and Fabricators, All Other	3,749	4,527	778	20.8	78	66	144	15.42	10
51-3000	Food Processing Workers	3,067	3,073	6	0.2	1	70	71	n/a	n/a
51-3011	Bakers	297	302	5	1.7	1	5	6	9.74	9
51-3020	Butchers, Meat, Poultry & Fish Processing Work	1,476	1,411	-65	-4.4	0	36	36	n/a	n/a
51-3021	Butchers and Meat Cutters	330	233	-97	-29.4	0	8	8	12.55	9
51-3090	Miscellaneous Food Processing Workers	1,294	1,360	66	5.1	7	29	36	n/a	n/a
51-3092	Food Batchmakers	255	266	11	4.3	1	6	7	12.37	11
51-4000	Metal Workers and Plastic Workers	9,344	9,864	520	5.6	52	231	283	n/a	n/a
51-4010	Computer Control Programmers and Operators	442	551	109	24.7	11	16	27	n/a	n/a
51-4011	Computer-Controlled Machine Tool Ops	361	460	99	27.4	10	13	23	13.87	9
51-4012	Numerical Tool & Process Control Programmer	81	91	10	12.3	1	3	4	16.48	9
51-4020	Forming Mach. Setter, Operator & Tender	987	999	12	1.2	1	27	28	n/a	n/a
51-4021	Extruding & Drawing Mach Setter, Operator	465	466	1	0.2	0	10	10	13.41	10
51-4022	Forging Machine Setter, Operator & Tender	150	160	10	6.7	1	5	6	12.46	n/a
51-4030	Machine Tool Cutting Setter, Operator & Tender	2,692	2,532	-160	-5.9	0	63	63	n/a	n/a
51-4031	Cutting, Punching & Press Machine Setter	1,884	1,728	-156	-8.3	0	37	37	11.40	10
51-4032	Drilling & Boring Machine Tool Setter, Operator	245	237	-8	-3.3	0	8	8	12.81	10
51-4033	Grind., Lapping, Polish. & Buffing Mach. Setter	260	275	15	5.8	2	6	8	11.05	10
51-4034	Lathe & Turning Mach. Tool Setter, Operator	226	218	-8	-3.5	0	9	9	13.21	10
51-4041	Machinists	1,117	1,156	39	3.5	4	23	27	16.66	9
51-4050	Metal Furnace and Kiln Operators and Tenders	34	40	6	17.6	1	1	2	n/a	n/a
51-4051	Metal-Refining Furnace Operators and Tenders	*	*	*	*	*	*	*	13.29	10
51-4070	Molders & Molding Machine Setter, Operator	568	566	-2	-0.4	0	12	12	n/a	n/a
51-4071	Foundry Mold and Coremakers	*	*	*	*	*	*	*	11.41	10
51-4072	Molding, Coremaking & Casting Machine Setter	543	539	-4	-0.7	0	11	11	11.02	10
51-4081	Multiple Mach. Tool Setter, Operator & Tender	233	267	34	14.6	3	4	7	12.17	10
51-4111	Tool and Die Makers	774	803	29	3.7	3	19	22	20.31	9
51-4120	Welding, Soldering, and Brazing Workers	1,952	2,379	427	21.9	43	55	98	n/a	n/a
51-4121	Welders, Cutters, Solderers, and Brazers	1,716	2,097	381	22.2	38	48	86	13.17	7
51-4122	Welding, Soldering & Brazing Machine Setter	236	282	46	19.5	5	7	12	12.49	10

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
51-4190	Miscellaneous Metalworkers & Plastic Workers	478	511	33	6.9	3	10	13	n/a	n/a
51-4192	Lay-Out Workers, Metal and Plastic	46	43	-3	-6.5	0	1	1	12.86	10
51-4193	Plating & Coating Machine Setters, Operator	158	170	12	7.6	1	3	4	11.58	10
51-4194	Tool Grinders, Filers, and Sharpeners	83	72	-11	-13.3	0	2	2	15.08	n/a
51-4199	Metal Workers and Plastic Workers, All Other	74	99	25	33.8	3	2	5	17.15	10
<b>51-5000</b>	<b>Printing Workers</b>	<b>3,043</b>	<b>3,433</b>	<b>390</b>	<b>12.8</b>	<b>39</b>	<b>77</b>	<b>116</b>	<b>n/a</b>	<b>n/a</b>
51-5010	Bookbinders and Bindery Workers	664	784	120	18.1	12	18	30	n/a	n/a
51-5011	Bindery Workers	647	766	119	18.4	12	17	29	11.23	10
51-5020	Printers	2,328	2,599	271	11.6	27	58	85	n/a	n/a
51-5021	Job Printers	345	426	81	23.5	8	9	17	9.90	9
51-5022	Prepress Technicians and Workers	569	526	-43	-7.6	0	14	14	16.61	9
51-5023	Printing Machine Operators	1,414	1,647	233	16.5	23	36	59	14.85	10
51-5099	Printing Workers, All Other	51	50	-1	-2.0	0	1	1	11.27	n/a
<b>51-6000</b>	<b>Textile, Apparel, and Furnishings Workers</b>	<b>3,687</b>	<b>4,369</b>	<b>682</b>	<b>18.5</b>	<b>68</b>	<b>68</b>	<b>136</b>	<b>n/a</b>	<b>n/a</b>
51-6011	Laundry and Dry-Cleaning Workers	622	722	100	16.1	10	17	27	7.71	10
51-6021	Pressers, Textile, Garment & Related Materials	536	587	51	9.5	5	7	12	8.36	11
51-6031	Sewing Machine Operators	496	464	-32	-6.5	0	5	5	9.59	10
51-6050	Tailors, Dressmakers, and Sewers	124	116	-8	-6.5	0	3	3	n/a	n/a
51-6052	Tailors, Dressmakers, and Custom Sewers	98	89	-9	-9.2	0	2	2	9.90	8
51-6090	Misc. Textile, Apparel & Furnishings Workers	327	310	-17	-5.2	0	9	9	n/a	n/a
51-6093	Upholsterers	104	92	-12	-11.5	0	3	3	9.90	n/a
<b>51-7000</b>	<b>Woodworkers</b>	<b>1,119</b>	<b>1,001</b>	<b>-118</b>	<b>-10.5</b>	<b>0</b>	<b>43</b>	<b>43</b>	<b>n/a</b>	<b>n/a</b>
51-7011	Cabinetmakers and Bench Carpenters	268	257	-11	-4.1	0	9	9	12.17	9
51-7021	Furniture Finishers	32	33	1	3.1	0	1	1	12.10	9
51-7040	Woodworking Mach. Setter, Operator & Tender	685	575	-110	-16.1	0	28	28	n/a	n/a
51-7041	Sawing Mach. Setter, Operator & Tender, Wood	151	134	-17	-11.3	0	6	6	10.59	10
51-7042	Woodworking Mach. Setter, Operator & Tender	534	441	-93	-17.4	0	22	22	12.85	10
51-7099	Woodworkers, All Other	133	135	2	1.5	0	5	5	9.92	10
<b>51-8000</b>	<b>Plant and System Operators</b>	<b>976</b>	<b>877</b>	<b>-99</b>	<b>-10.1</b>	<b>0</b>	<b>29</b>	<b>29</b>	<b>n/a</b>	<b>n/a</b>
51-8021	Stationary Engineers and Boiler Operators	273	226	-47	-17.2	0	8	8	21.97	9
51-8031	Water, Liquid Waste Treat. Plant & System Ops	162	202	40	24.7	4	5	9	17.46	9
51-8090	Miscellaneous Plant and System Operators	387	319	-68	-17.6	0	12	12	n/a	n/a
51-8092	Gas Plant Operators	*	*	*	*	*	*	*	24.01	9
<b>51-9000</b>	<b>Other Production Occupations</b>	<b>13,359</b>	<b>14,193</b>	<b>834</b>	<b>6.2</b>	<b>83</b>	<b>295</b>	<b>378</b>	<b>n/a</b>	<b>n/a</b>
51-9010	Chemical Process Machine Setter, Operator	844	762	-82	-9.7	0	20	20	n/a	n/a
51-9011	Chemical Equipment Operators and Tenders	754	679	-75	-9.9	0	18	18	22.24	10
51-9012	Separating, Filtering, Clarifying, Precipitating	90	83	-7	-7.8	0	2	2	16.59	10



# Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
51-9020	Crush, Grind, Polish, Mix & Blending Workers	621	654	33	5.3	3	14	17	n/a	n/a
51-9021	Crushing, Grinding & Polishing Machine Setter	162	180	18	11.1	2	4	6	12.66	10
51-9022	Grinding and Polishing Workers, Hand	86	102	16	18.6	2	2	4	9.66	10
51-9023	Mixing, Blending Machine Setter, Operator	373	372	-1	-0.3	0	8	8	13.52	10
51-9030	Cutting Workers	1,034	1,147	113	10.9	11	18	29	n/a	n/a
51-9032	Cutting & Slicing Machine Setter, Operator	639	681	42	6.6	4	11	15	14.56	10
51-9041	Extrude, Form, Press & Compact Mach Setter	122	131	9	7.4	1	3	4	16.97	10
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operator	181	175	-6	-3.3	0	5	5	17.13	10
51-9061	Inspector, Tester, Sorter, Sampler & Weigher	2,508	2,341	-167	-6.7	0	55	55	15.14	10
51-9080	Medical, Dental & Ophthalmic Laboratory Tech	249	254	5	2.0	1	7	8	n/a	n/a
51-9081	Dental Laboratory Technicians	127	122	-5	-3.9	0	4	4	14.06	n/a
51-9083	Ophthalmic Laboratory Technicians	122	132	10	8.2	1	3	4	10.26	n/a
51-9111	Packaging & Filling Machine Operator & Tender	1,396	1,506	110	7.9	11	31	42	11.93	11
51-9120	Painting Workers	1,117	1,302	185	16.6	19	25	44	n/a	n/a
51-9121	Coating, Painting & Spraying Machine Setter	589	640	51	8.7	5	13	18	12.40	10
51-9123	Painting, Coating, and Decorating Workers	89	89	0	0.0	0	2	2	14.60	11
51-9130	Photo. Process Worker & Processing Mach Ops	252	219	-33	-13.1	0	7	7	n/a	n/a
51-9131	Photographic Process Workers	125	97	-28	-22.4	0	3	3	10.84	10
51-9132	Photographic Processing Machine Operators	127	122	-5	-3.9	0	3	3	8.67	11
51-9190	Miscellaneous Production Workers	5,017	5,687	670	13.4	67	110	177	n/a	n/a
51-9191	Cementing & Gluing Machine Operator	147	132	-15	-10.2	0	4	4	9.12	n/a
51-9192	Cleaning, Washing & Metal Pickling Equip Ops	48	41	-7	-14.6	0	1	1	13.01	n/a
51-9194	Etchers and Engravers	36	36	0	0.0	0	1	1	13.64	9
51-9195	Molders, Shapers & Casters, Ex. Metal & Plastic	93	104	11	11.8	1	2	3	10.66	10
51-9196	Paper Goods Mach. Setter, Operator & Tender	584	626	42	7.2	4	11	15	11.94	10
51-9198	Helpers--Production Workers	2,394	2,652	258	10.8	26	60	86	11.37	11
51-9199	Production Workers, All Other	1,691	2,074	383	22.6	38	30	68	15.60	10

~ Education/Training Required Codes- Page 38

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch



### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
53-0000 Transportation and Material Moving Occupations		44,364	52,083	7,719	17.4	772	1,071	1,843	n/a	n/a
53-1000	Supervisors, Transp. & Material Moving Worker	1,769	2,214	445	25.2	45	38	83	n/a	n/a
53-1011	Aircraft Cargo Handling Supervisors	*	*	*	*	*	*	*	20.08	8
53-1021	Supervisors of Helpers, Laborers	743	871	128	17.2	13	16	29	18.16	8
53-1031	Supervisors of Transp. & Material Moving Work	1,007	1,322	315	31.3	32	22	54	20.06	8
53-2000	Air Transportation Workers	2,441	3,302	861	35.3	86	58	144	n/a	n/a
53-2010	Aircraft Pilots and Flight Engineers	2,339	3,194	855	36.6	86	54	140	n/a	n/a
53-2012	Commercial Pilots	35	46	11	31.4	1	1	2	n/a	7
53-3000	Motor Vehicle Operators	15,849	19,080	3,231	20.4	323	236	559	n/a	n/a
53-3020	Bus Drivers	1,825	1,881	56	3.1	6	46	52	n/a	n/a
53-3030	Driver/Sales Workers and Truck Drivers	13,078	16,095	3,017	23.1	302	180	482	n/a	n/a
53-3031	Driver/Sales Workers	1,324	1,391	67	5.1	7	18	25	12.59	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	5,732	6,386	654	11.4	65	79	144	15.87	10
53-3041	Taxi Drivers and Chauffeurs	617	751	134	21.7	13	5	18	9.62	11
53-3099	Motor Vehicle Operators, All Other	258	261	3	1.2	0	4	4	9.12	11
53-4000	Rail Transportation Workers	361	291	-70	-19.4	0	16	16	n/a	n/a
53-4010	Locomotive Engineers and Operators	145	137	-8	-5.5	0	7	7	n/a	n/a
53-4012	Locomotive Firers	*	*	*	*	*	*	*	n/a	10
53-4031	Railroad Conductors and Yardmasters	123	90	-33	-26.8	0	6	6	n/a	8
53-4041	Subway and Streetcar Operators	*	*	*	*	*	*	*	n/a	11
53-4099	Rail Transportation Workers, All Other	*	*	*	*	*	*	*	n/a	11
53-5000	Water Transportation Workers	104	113	9	8.7	1	4	5	n/a	n/a
53-5011	Sailors and Marine Oilers	52	58	6	11.5	1	2	3	12.11	11
53-5020	Ship and Boat Captains and Operators	48	51	3	6.3	0	2	2	n/a	n/a
53-5021	Captains, Mates, and Pilots of Water Vessels	46	49	3	6.5	0	2	2	18.72	8
53-5022	Motorboat Operators	*	*	*	*	*	*	*	19.06	n/a
53-6000	Other Transportation Workers	955	1,003	48	5.0	5	30	35	n/a	n/a
53-6011	Bridge and Lock Tenders	*	*	*	*	*	*	*	19.06	n/a
53-6031	Service Station Attendants	242	205	-37	-15.3	0	12	12	8.11	11
53-6051	Transportation Inspectors	246	265	19	7.7	2	6	8	16.32	8
53-6090	Miscellaneous Transportation Workers	171	198	27	15.8	3	7	10	n/a	n/a
53-6099	Transportation Workers, All Other	164	187	23	14.0	2	6	8	10.48	11
53-7000	Material Moving Workers	22,885	26,080	3,195	14.0	320	690	1,010	n/a	n/a
53-7021	Crane and Tower Operators	111	131	20	18.0	2	3	5	14.75	10
53-7030	Dredge, Excavating & Loading Mach. Operator	93	83	-10	-10.8	0	3	3	n/a	n/a
53-7032	Excavating, Loading Machine & Dragline Ops	50	56	6	12.0	1	2	3	15.31	10
53-7051	Industrial Truck and Tractor Operators	2,869	3,201	332	11.6	33	40	73	12.85	11

# KIPDA Area

## Transportation & Material Moving Occs. (cont'd)

### Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
53-7060	Laborers and Material Movers, Hand	18,949	21,705	2,756	14.5	276	611	887	n/a	n/a
53-7061	Cleaners of Vehicles and Equipment	1,339	1,653	314	23.5	31	51	82	10.21	11
53-7062	Laborers, Freight, Stock & Material Mover, Hand	12,391	14,605	2,214	17.9	221	414	635	11.86	11
53-7064	Packers and Packagers, Hand	3,749	4,173	424	11.3	42	96	138	8.68	11
53-7070	Pumping Station Operators	*	*	*	*	*	*	*	n/a	n/a
53-7121	Tank Car, Truck, and Ship Loaders	62	64	2	3.2	0	2	2	16.81	10
53-7199	Material Moving Workers, All Other	*	*	*	*	*	*	*	12.09	11

~ Education/Training Required Codes- Page 33

n/a - Not Available

\* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

## Educational Classifications

Occupations are classified into one of eleven categories listed according to these principles:

- An occupation is placed into the category that best describes the education or training needed by most workers to become fully qualified.
- Postsecondary awards, if generally needed for entry into the occupation, take precedence over work-related training even though additional skills or experience may be needed for a worker to become fully qualified.
- The length of time an average worker generally needs to become fully qualified through a combination of on-the-job training and experience is used to categorize occupations in which a post secondary award generally is needed for entry.

### Postsecodary awards

**(1) *First professional degree.*** Completion of the degree usually requires at least 3 years of full-time academic study beyond a bachelor's degree.

**(2) *Doctoral degree.*** Completion of a Ph.D. or other doctoral degree usually requiries at least 3 years of full-time academic study beyond a bachelor's degree.

**(3) *Master's degree.*** Completion of the degree usually requires 1 or 2 years of full time academic study beyond a bachelor's degree.

**(4) *Bachelor's degree.*** Completion of the degree generally requires at least 4 years, but not more than 5 years, of full-time academic study.

**(5) *Bachelor's or higher degree, plus work experience.*** Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.

**(6) *Associate degree.*** Completion of the degree usually requires at least 2 years of full-time academic study.

**(7) *Postsecondary vocational awards.*** Some programs last only a few weeks while others may last more than a year. Programs lead to a certificate or other award, but not a degree.

### Work-related training

**(8) *Work experience in a related occupation.*** Many occupations requiring work experience are first-line supervisors/managers of service, sales and related, production, or other occupations, or are management occupations.

**(9) *Long-term on-the-job training.*** More than 12 months on on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to 5 years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations—insurance sales and securities sales, for example—trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training generally are considered to be employed in the occupation. Also included in this category is the development of a natural ability—such as that possessed by musicians, atheletes, actors, and other entertainers—that must be cultivated over several years, frequently in a nonwork setting.

**(10) *Moderate-term on-the-job training.*** Skills needed to be fully qualified can be acquired during 1 to 12 months of combined on-the-job experience and informal training.

**(11) *Short-term on-the-job training.*** Skills needed to be fully qulaified can be acquired during a short demonstration of job duties or during 1 month or less of on-the-job experience or instruction.

Occupational Title	SOC Code	Page Number
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--- A ---

Accountants and Auditors	13-2011	10
Actors	27-2011	17
Actors, Producers, and Directors	27-2010	17
Actuaries	15-2011	11
Admin Law Judge, Adjudicator & Hearing Officer	23-1021	15
Administrative Services Managers	11-3011	9
Adult Literacy, Remedial Ed. & GED Teachers	25-3011	16
Advertising and Promotions Managers	11-2011	9
Advertising Sales Agents	41-3011	26
Advertising, Marketing, Promotions, PR & Sales	11-2000	9
Agricultural and Food Scientists	19-1010	13
Agricultural Managers	11-9010	9
Agricultural Workers	45-2000	29
Agricultural Workers, All Other	45-2099	29
Air Transportation Workers	53-2000	37
Aircraft Cargo Handling Supervisors	53-1011	37
Aircraft Pilots and Flight Engineers	53-2010	37
Amusement and Recreation Attendants	39-3091	25
Anesthesiologists	29-1061	19
Animal Care and Service Workers	39-2000	25
Animal Trainers	39-2011	25
Anthropologists and Archeologists	19-3091	13
Appraisers and Assessors of Real Estate	13-2021	10
Architects, Except Landscape and Naval	17-1011	12
Architects, Except Naval	17-1010	12
Architects, Surveyors, and Cartographers	17-1000	12
Architectural and Civil Drafters	17-3011	12
Archivists, Curators, and Museum Technicians	25-4010	16
Art and Design Workers	27-1000	17
Art and Design Workers, All Other	27-1099	17
Art Directors	27-1011	17
Artists and Related Workers	27-1010	17
Arts, Comm. & Humanities Teachers, Postsec	25-1120	16
Assemblers and Fabricators	51-2000	34
Assemblers and Fabricators, All Other	51-2099	34
Athletes, Coaches, Umpires & Related Workers	27-2020	17
Athletic Trainers	29-9091	20
Atmospheric and Space Scientists	19-2021	13
Audio and Video Equipment Technicians	27-4011	18

Occupational Title	SOC Code	Page Number
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Automotive Body and Related Repairers	49-3021	32
Automotive Service Technicians and Mechanics	49-3023	32
Automotive Technicians and Repairers	49-3020	32

--- B ---

Baggage Porters and Bellhops	39-6011	25
Baggage Porters, Bellhops, and Concierges	39-6010	25
Bakers	51-3011	34
Barbers	39-5011	25
Barbers and Cosmetologists	39-5010	25
Bartenders	35-3011	23
Bill and Account Collectors	43-3011	27
Billing, Posting Clerks and Machine Operators	43-3021	27
Bindery Workers	51-5011	35
Biological Scientists	19-1020	13
Biological Technicians	19-4021	13
Boilermakers	47-2011	30
Bookbinders and Bindery Workers	51-5010	35
Bookkeeping, Accounting, and Auditing Clerks	43-3031	27
Brickmasons, Blockmasons & Stonemasons	47-2020	30
Bridge and Lock Tenders	53-6011	37
Broadcast Technicians	27-4012	18
Broadcast, Sound Eng. Tech & Radio Operators	27-4010	18
Budget Analysts	13-2031	10
Build, Grounds Clean. & Maint. Work, All Other	37-9099	24
Building Cleaning and Pest Control Workers	37-2000	24
Building Cleaning Workers	37-2010	24
Bus Drivers	53-3020	37
Bus, Truck Mechanics & Diesel Engine Spec	49-3031	32
Business Operations Specialists	13-1000	10
Business Operations Specialists, All Other	13-1199	10
Butchers and Meat Cutters	51-3021	34
Butchers, Meat, Poultry & Fish Processing Work	51-3020	34
Buyers and Purchasing Agents	13-1020	10

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Cabinetmakers and Bench Carpenters	51-7011	35
Camera Ops, Television, Video & Motion Picture	27-4031	18

Occupational Title	SOC Code	Page Number
Captains, Mates, and Pilots of Water Vessels	53-5021	37
Cardiovascular Technologists and Technicians	29-2031	19
Carpenters	47-2031	30
Carpet Installers	47-2041	30
Carpet, Floor, and Tile Installers and Finishers	47-2040	30
Cartographers and Photogrammetrists	17-1021	12
Cashiers	41-2011	26
Cement Mason, Concrete & Terrazzo Work	47-2050	30
Cement Masons and Concrete Finishers	47-2051	30
Cementing & Gluing Machine Operator	51-9191	36
Chefs and Head Cooks	35-1011	23
Chemical Engineers	17-2041	12
Chemical Equipment Operators and Tenders	51-9011	35
Chemical Process Machine Setter, Operator	51-9010	35
Chemical Technicians	19-4031	13
Chemists	19-2031	13
Chemists and Materials Scientists	19-2030	13
Chief Executives	11-1011	9
Child Care Workers	39-9011	25
Choreographers	27-2032	17
Civil Engineering Technicians	17-3022	12
Civil Engineers	17-2051	12
Claims Adj, Appraiser, Examiner & Investigator	13-1030	10
Claims Adjusters, Examiners, and Investigators	13-1031	10
Cleaners of Vehicles and Equipment	53-7061	38
Cleaning, Washing & Metal Pickling Equip Ops	51-9192	36
Clergy	21-2011	14
Clinical Laboratory Technologist & Technician	29-2010	19
Clinical, Counseling, and School Psychologists	19-3031	13
Coaches and Scouts	27-2022	17
Coating, Painting & Spraying Machine Setter	51-9121	36
Combined Food Prep. & Serving Workers	35-3021	23
Commercial and Industrial Designers	27-1021	17
Commercial Pilots	53-2012	37
Communications Equipment Operators	43-2000	27
Compensation, Benefits & Job Analysis Spec	13-1072	10
Compliance Officer, Ex. Ag, Construction, Health	13-1041	10
Computer and Information Scientists, Research	15-1011	11
Computer and Information Systems Managers	11-3021	9
Computer Control Programmers and Operators	51-4010	34
Computer Hardware Engineers	17-2061	12

Occupational Title	SOC Code	Page Number
Computer Operators	43-9011	28
Computer Programmers	15-1021	11
Computer Software Eng., Systems Software	15-1032	11
Computer Software Engineers	15-1030	11
Computer Software Engineers, Applications	15-1031	11
Computer Specialists	15-1000	11
Computer Support Specialists	15-1041	11
Computer Systems Analysts	15-1051	11
Computer, Auto Teller & Office Machine Repair	49-2011	32
Computer-Controlled Machine Tool Ops	51-4011	34
Concierges	39-6012	25
Conservation Scientists and Foresters	19-1030	13
Construction and Building Inspectors	47-4011	31
Construction Equipment Operators	47-2070	30
Construction Laborers	47-2061	30
Construction Managers	11-9021	9
Construction Trades Workers	47-2000	30
Cooks	35-2010	23
Cooks and Food Preparation Workers	35-2000	23
Cooks, Fast Food	35-2011	23
Cooks, Institution and Cafeteria	35-2012	23
Cooks, Private Household	35-2013	23
Cooks, Restaurant	35-2014	23
Correspondence Clerks	43-4021	27
Cost Estimators	13-1051	10
Counselor, Social Worker & Other Community	21-1000	14
Counselors	21-1010	14
Counselors, Social & Religious Work, All Other	21-9099	14
Counter and Rental Clerks	41-2021	26
Counter Attend, Cafeteria, Food Concession	35-3022	23
Counter, Rental Clerks & Parts Salespersons	41-2020	26
Crane and Tower Operators	53-7021	37
Credit Analysts	13-2041	10
Credit Authorizers, Checkers, and Clerks	43-4041	27
Crush, Grind, Polish, Mix & Blending Workers	51-9020	36
Crushing, Grinding & Polishing Machine Setter	51-9021	36
Customer Service Representatives	43-4051	27
Cutting & Slicing Machine Setter, Operator	51-9032	36
Cutting Workers	51-9030	36
Cutting, Punching & Press Machine Setter	51-4031	34

Occupational Title	SOC Code	Page Number
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Dancers and Choreographers	27-2030	17
Data Entry and Information Processing Workers	43-9020	28
Data Entry Keyers	43-9021	28
Database Administrators	15-1061	11
Demonstrators and Product Promoters	41-9011	26
Dental Assistants	31-9091	21
Dental Hygienists	29-2021	19
Dental Laboratory Technicians	51-9081	36
Dentists	29-1020	19
Designers	27-1020	17
Desktop Publishers	43-9031	28
Detectives and Criminal Investigators	33-3021	22
Diagnostic Medical Sonographers	29-2032	19
Diagnostic Related Technologist & Technician	29-2030	19
Dietetic Technicians	29-2051	19
Dining Room, Cafeteria Attend & Bartender Help	35-9011	23
Dishwashers	35-9021	23
Dispatchers	43-5030	27
Dispatchers, Except Police, Fire & Ambulance	43-5032	27
Drafters	17-3010	12
Drafters, Engineering & Mapping Tech, All Other	17-3099	12
Drafters, Engineering & Mapping Technicians	17-3000	12
Dredge, Excavating & Loading Mach. Operator	53-7030	37
Drilling & Boring Machine Tool Setter, Operator	51-4032	34
Driver/Sales Workers	53-3031	37
Driver/Sales Workers and Truck Drivers	53-3030	37
Drywall and Ceiling Tile Installers	47-2081	30
Drywall Installer, Ceiling Tile Installer & Taper	47-2080	30

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Earth Drillers, Except Oil and Gas	47-5021	31
Economists	19-3011	13
Editors	27-3041	17
Education & Library Science Teachers, Postsec	25-1080	16
Education Admin, Preschool & Child Care	11-9031	9

Occupational Title	SOC Code	Page Number
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Education Administrators	11-9030	9
Education Teachers, Postsecondary #	25-1081	16
Education, Training & Library Workers, All Other	25-9099	16
Educational, Vocational & School Counselors	21-1012	14
Electric Motor, Power Tool & Related Repairers	49-2092	32
Electrical & Electronic Engineering Technicians	17-3023	12
Electrical & Electronic Equip Mech., Installers	49-2000	32
Electrical & Electronic Equip. Mechanic, Installer	49-2099	32
Electrical & Electronics Repair, Commere	49-2094	32
Electrical & Electronics Repairers, Powerhouse	49-2095	32
Electrical and Electronics Drafters	17-3012	12
Electrical and Electronics Engineers	17-2070	12
Electrical Engineers	17-2071	12
Electrical Power-Line Installers and Repairers	49-9051	32
Electricians	47-2111	30
Electro-Mechanical Technicians	17-3024	12
Electronic Home Entertain Equip. Install, Repair	49-2097	32
Electronics Engineers, Except Computer	17-2072	12
Elevator Installers and Repairers	47-4021	31
Emergency Management Specialists	13-1061	10
Employment, Recruitment & Placement Spec	13-1071	10
Engine and Other Machine Assemblers	51-2031	34
Engineering Managers	11-9041	9
Engineering Technicians, Except Drafters	17-3020	12
Engineers	17-2000	12
Engineers, All Other	17-2199	12
Entertainer, Performer, Sport & Related Work	27-2000	17
Entertainment Attendants and Related Workers	39-3000	25
Environmental Engineering Technicians	17-3025	12
Environmental Engineers	17-2081	12
Environmental Science & Protection Technician	19-4091	13
Environmental Scientists & Spec., Inc Health	19-2041	13
Environmental Scientists and Geoscientists	19-2040	13
Etchers and Engravers	51-9194	36
Excavating, Loading Machine & Dragline Ops	53-7032	37
Executive Secretaries & Administrative Assist	43-6011	28
Explosives, Ordnance Hand. Experts, Blasters	47-5031	31
Extraction Workers	47-5000	31
Extrude, Form, Press & Compact Mach Setter	51-9041	36
Extruding & Drawing Mach Setter, Operator	51-4021	34



Occupational Title	SOC Code	Page Number
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Family and General Practitioners	29-1062	19
Farm, Ranch, and Other Agricultural Managers	11-9011	9
Farmers and Ranchers	11-9012	9
Farmworker/Labor, Crop, Nursery, Greenhouse	45-2092	29
Farmworkers, Farm and Ranch Animals	45-2093	29
Fast Food and Counter Workers	35-3020	23
Fence Erectors	47-4031	31
File Clerks	43-4071	27
Film and Video Editors	27-4032	18
Financial Analysts	13-2051	10
Financial Analysts and Advisors	13-2050	10
Financial Clerks	43-3000	27
Financial Examiners	13-2061	10
Financial Managers	11-3031	9
Financial Specialists	13-2000	10
Financial Specialists, All Other	13-2099	10
Financial, Info. & Record Clerks, All Other	43-4999	27
Fire Fighting and Prevention Workers	33-2000	22
Fishers and Related Fishing Workers	45-3010	29
Fishing and Hunting Workers	45-3000	29
Fitness Trainers and Aerobics Instructors	39-9031	25
Floral Designers	27-1023	17
Food and Beverage Serving Workers	35-3000	23
Food Batchmakers	51-3092	34
Food Prep. & Serving Related Worker, All Other	35-9099	23
Food Preparation Workers	35-2021	23
Food Processing Workers	51-3000	34
Food Servers, Nonrestaurant	35-3041	23
Food Service Managers	11-9051	9
Forest, Conservation, and Logging Workers	45-4000	29
Forging Machine Setter, Operator & Tender	51-4022	34
Forming Mach. Setter, Operator & Tender	51-4020	34
Foundry Mold and Coremakers	51-4071	34
Funeral Attendants	39-4021	25
Funeral Directors	11-9061	9
Funeral Service Workers	39-4000	25
Furnace, Kiln, Oven, Drier & Kettle Operator	51-9051	36
Furniture Finishers	51-7021	35

Occupational Title	SOC Code	Page Number
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Gas Plant Operators	51-8092	35
General and Operations Managers	11-1021	9
Geographers	19-3092	13
Geoscientists, Ex. Hydrologists, Geographers	19-2042	13
Glaziers	47-2121	30
Graphic Designers	27-1024	17
Grind., Lapping, Polish. & Buffing Mach. Setter	51-4033	34
Grinding and Polishing Workers, Hand	51-9022	36
Grounds Maintenance Workers	37-3000	24
Grounds Maintenance Workers	37-3010	24
Grounds Maintenance Workers, All Other	37-3019	24

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Hairdressers, Hairstylists, and Cosmetologists	39-5012	25
Hazardous Materials Removal Workers	47-4041	31
Health Diag. & Treating Pract. Support Tech	29-2050	19
Health Diagnosing & Treating Pract., All Other	29-1199	19
Health Diagnosing and Treating Practitioners	29-1000	19
Health Educators	21-1091	14
Health Teachers, Postsecondary	25-1070	16
Health Technologists and Technicians	29-2000	19
Health, Safety Engineers, Ex Mining Safety Eng	17-2111	12
Healthcare Pract. & Tech. Workers, All Other	29-9099	20
Healthcare Support Workers, All Other	31-9099	21
Heating, Air Conditioning & Refrigeration Mech.	49-9021	32
Heavy Vehicle & Mobile Equipment Service Tech	49-3040	32
Helpers, Construction Trades	47-3000	30
Helpers, Construction Trades	47-3010	30
Helpers--Brick, Block, Stone & Tile	47-3011	30
Helpers--Carpenters	47-3012	30
Helpers--Electricians	47-3013	30
Helpers--Installation, Maint. & Repair Workers	49-9098	33
Helpers--Paint, Paperhanger, Plaster & Stucco	47-3014	30
Helpers--Pipe, Plumber, Pipefitter & Steamfitter	47-3015	30
Helpers--Production Workers	51-9198	36

Occupational Title	SOC Code	Page Number
Helpers--Roofers	47-3016	30
Historians	19-3093	13
Home Appliance Repairers	49-9031	32
Home Health Aides	31-1011	21
Hosts & Hostesses, Restaurant, Lounge	35-9031	23
Hotel, Motel, and Resort Desk Clerks	43-4081	27
Human Res, Training & Labor Relations Spec	13-1070	10
Human Res. Assist, Ex. Payroll & Timekeeping	43-4161	27
Human Resources Managers	11-3040	9
Hydrologists	19-2043	13

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Industrial Engineering Technicians	17-3026	12
Industrial Engineers, Inc. Health and Safety	17-2110	12
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